

## Yu.A.Kharin

# Fundamentals of Dialectics

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#### Introduction

Men have always lived a life of hard work, strife and suffering, hope and minfortune, despira and expectations. No wonder that since time immensorial they have sought to know the meaning and purport of their existence. What a the essence of being? What are good and evi? What is the truth? Does man possess freedom of will? Where does happiness lie? Can violence and suffering be eliminated? What should society be lake? What should society be lake? What should man do? Is the world governed by law or accident? These and other questions have been a matter of grave concern for all generations of men. Today they present themselves in even sharper er relief. After all, history has never developed so rapidly and contradictority as it does in this day and are.

Science has made astounding progress. Man has delved into the secrets of the atom and is exploring outer space. Badical qualitative changes are taking place in technology. The current scientific and technocal revolution has given a powerful impetus to rapid growth in the productive forces and at the same time has further excerbated the contraductions of explicialist society and given rise to new social antagonisms. The deepening general crisis of capitalism involves a sharper confrontation between the forces of progress and reaction, war and peace.

The world revolutionary process is gaining momentum. In the modern age of radical social change the positions of existing socialism are strengthening and the socialist countries are exerting a growing influence on the course of world events. The working people are steeping up their struggle against monopoly oppresion and the exploiting order. The imperialist colonial system has cellapsed. The national bleration and anti-imperialist more

# Chapter I PHILOSOPHY: THE THEORETICAL BASIS OF MAN'S WORLD OUTLOOR

## What Is Philosophy?

As the philosophy of the working class, Marxist-Leninist philosophy ophy is the supreme form of materialism, a logical result of the preceding development of philosophical thought through the age and of the whole spiritual culture of mankind. That is why it proper to begin the study of the fundamentals of dialectical man rialism with ascertaining what philosophy is in general, as a recific field of man's spiritual activity. This is all the more impor ant because philosophers themselves are far from unanimous o this point. Some of them (notably those in India) prefer to the philosophy among the arts rather than among the sciences. support their view they maintain that there is no integral phil sophical system and that a philosopher creates his system as sul jectively as a composer his music. Others side with the promine British philosopher Bertrand Russell who believed that philosoph occupied an intermediate position between science and religion (theology), and that all definite knowledge—so I should contend belongs to science; all dogma as to what surpasses definite know edge belongs to theology. But between theology and scient there is a No Man's Land, exposed to attack from both side this No Man's Land is philosophy.' Still others interpret philosophy. ophy as the supreme science (the science of sciences), a doctrine ethics and happiness, of scientific and ordinary language, doctring of man, of knowledge, of the beautiful, etc. We shall not \$ into further detail about these theories. As philosophy developed its subject-matter was changing and becoming more precise. The

Bertrand Russell, A History of Western Philosophy, Simon 2011.
N. Y., 1945, D. XIII.

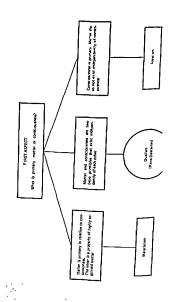
above interpretations are one-sided or even erroneous in the context of a modern scientific conception of philosophy.

For instance, philosophy differs from art. The latter serves to satisfy people's aesthetic requirements and reflects reality in artistic mages, while the former has always purported to satisfy man's requirements in explaining the world, which is done through abstract notions, eaterquies and laws.

It would be wrong to identify philosophy with religion. Religion is a fantative reflection of natural and social reality, of those external forces that dominate men in their everyday life. In religious consciousness the world and being are interpreted through a belief in supernatural entities. Religion is thatefore opposed to science as a system of objective, true knowledge. Unlike religion, philosophy operates with theoretical abstractions rather than illustry images. It does not rely on postulated dogmas, but tries to explain being on the basis of a knowledge of reality. It has therefore claimed, as a rule, to be scientific, and to apply scientific methods.

There are however essential differences between philosophy and the sciences. The peptial sciences study the properties of separate things and the particular laws of the inorganic world, nature or history. Philosophy, on the other hand, is concerned with a general picture of being, with a conception of the world as a whole, to its multiformity and using, as well as with the place held in his world by man, his mind and activity. A scientist wants to reveal the objective truth, while a philosopher does not only atrive to explain reality, but also to interpret it from the position of a definite class.

Many people believe that the essence of philosophy lies in its moral function. Of course, philosophy has much in common with morality. Any philosophy in its conception of the world directs man towards a definite type of conduct in society; theoretically substantiate particular ethical ideals, codes and norms of moral relations between people, as well as their moral actions. But one should still draw a distinction between morality and philosophy. The former express the specific sphere of man's relations with his fellow beings and society, while the latter is concerned not only with moral action, but also with politics, religion, economics, science and art. Moreover, morality is only a sphere of human control of the co



'pluralism', and so on Some bourgeois philosophers allege that in the modern age the fundamental question of philosophy has become outdated and the difference between materialism and idealism has disappeared. Is that so? After all, philosophy as a substantial element of social consciousness has always reflected the social being. The interests of the progressive and reactionary forces, of the exploited and exploiting classes are opposite in societies marked by antagonistic social relations. The clash of opposite class interests has been reflected in the struggle of philoso-phical ideas through different periods of history. The history of society shows that materialist philosophy was largely developed by representatives of progressive classes and social groups. It expressed the world outlook and ideology of the rising, progressive social strata, concerned with changing social relations and developing the productive forces, with disseminating scientific knowledge and overcoming ignorance and superstition. Idealism in philosophy was more often than not an ideology of the reactionary classes and social groups seeking to preserve the existing social order and intensify religious prejudices. In modern society the confrontation between materialism and idealism ultimately expresses the opposition of interests of the two main classes in struggle-the bourgeoisie and the working class.

Needless doug, the connection between the materialism/stealum struggles and the class struggle should not be oversimplified. It is struggles and the class struggle should not be oversimplified. It is supported to the control of the control of the control of the control struggless and the class struggle should only the control of the support of the control of the control of the control of the control outlooks on the world by assuming the independent existence of two principles or substances, the puritual and on material. The se-called pluralism prached by many bounded to the control of also indulges not an unjustifiable combination of the control of the views. Its adherents assume that the universe is based compatible views, its adherents assume that the universe is based compatible views, the adherents assume that the universe is based compatible views, the adherents assume that the universe is based compatible views, the adherents assume that the universe is based on the control of the section of an unique of the control of the control of the consistence and religion, reason and myth, cruth and falsehood, in the final analysis pluralism, just the dualism, in philosophy is a ducturine of a purity blacking tentrol.

Scientific materialist philosophy is a monistic doctrine, that is

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to say, it adheres to the principle of the prunacy of matter in its conception of the world. One can only pursue the idealist principle of the prunacy of consciousness with any consistency, if one ignores the contradictions arising therefrom between a philosoobteal doctrine and life itself.

For all the opposition between materialism and adealism it would of course be wrong to believe that any thess propounded by a particular philosopher is directly conditioned by his class interest and political views. Nevertheless, a dividing line is clearly traceable between opposing parties in philosophy, as we shall try to show in several examples taken from the history of human culture. The struggle between materialism and idealism is ultimately an expression of the trends and ideologies of hostile classes and social forces.

It would be appropriate here to point out the utter fallacy of assertions that Western and Eastern civilizations are in principle different. This tendency is evident even in poetry Thus, Rudyard Kipling wrote:

Oh, East is East, and West is West, and never the twain shall meet,

Till Earth and Sky stand presently at God's great Judgment Seat. . .\*

Boargeon and especially Western tcholars incorrectly contrast the various human spirit development models that allegetly determine the radical distinctions between Eastern and Western Followspites. The former, they are, is marked predominantly by philosophies. The former, they are, is marked predominantly by passivity and the trend towards communion with nature, while the latter, on the contrary, is rationalist, active, given to critical reasoning and strives to transform nature.

Referring to the history of Indian philosophy, modern bourgeois shelms maintain that it is permeated by a beled in a Juyor being, preclaims that man's salvation lies in his withdrawal into an uner would, relies on the subconsciousness rather than the intellect, and so on. From this a number of Western and twodian scholars have inferred that there was no struggle between

Selected Prote and Portry of Rudyard Kipling, Garden City Publ. Co., N. Y., 1937, p. 1.

materialism and idealism in the history of Indian philosophy contrast to that of the West. They hold that Indian philoso has always been spiritualistic or mystical in all its forms, ie, idealistic. At the 16th World Congress of Philosophy held Disseldorf (West Germany) in 1978, some Indian philosophy argued that the rationalist idea, i.e., a purely scientific sof thinking based on logical proof, is incompatible with fire essence of Eastern philosophy. According to them, this idea b longs entirely to West European culture directed towards logic (rational) knowledge rather than contemplation, towards it opposition of thought and being rather than their integrated towards change rather than the conservation of age-old custom and traditions. The Indian philosopher R. Pannikara, for evan ple, said that modern civilisation, the foundations of which an closely connected with science, is not the only possible way to be velop culturally. He opposed Western rationality to Eastern P tionality, asserting that the former is based on differentiation subject and object and on mediated knowledge while the hate

relies on direct knowledge leading to human emancipation This opposition of East and West as allegedly quite alien chi lisations completely distorts the actual process of mankind's 50 ritual development. The history of Indian philosophy is inter-preted from this point of view as a pure unfolding of ideas is the spicinal them. the spiritual sphere totally unconnected with the development of socio-economic formations and the class struggle in society Those who support this opposition incorrectly ascribe to all Is dian philosophers the tendency to cognise all phenomena from the religious angle. The various schools and trends in India philosophy are differentiated on the basis of their relation to the Vedas (ie philosophy is orthodox' if it recognises the importance of the Vedas and 'unorthodox' if it recognises the northodox' if it does not) rather than on the basis of their answers to the fundamental question of phi losophy. Needless to say such an approach tends to tone down the struggle between materialism and idealism, between historically cally progressive and reactionary trends. Some even maintain that materialism has no roots in ancient India

However, materialism is not accidental or inesential, in the spiritual respect, to the history of philosophy in India or other countries, but is an inalienable and important component of their

cultural traditions. There can be no doubt, however, that the materialist philosophy was professed in India for centuries and had, at the time, a powerful influence on the people."

with regard to this it should be noted that it would be altogether wong to counterpose Western nations with their ational, logical thinking, to Eastern nations with their allegelity irrational and mystical perception of the world. It is erroneous, for instance, to assert that 'rational' Western thought produced exact sciences which were unknown to the Eastern nations Mathematics was highly developed in India. The famous theorem named after Pythagoras was discovered in India long before it became known to the Greek. The great sciential rayabilant; (5th century AD) calculated the number n to within the fourth figure. He also knew how to find out square and cube roots and to solve first degree equations. Indian scientists devised the decimal calculus system, kaid the foundations for trigonometry, formulated the concept of zero, and made a great contribution to chemistry and boxies.

On the other hand, Western philosophers, like their Indian counterparts, were interested in man's inner world, as can be seen, for example, in the Greek philosophers' famous motto, 'know thyself'.

Thus, counterposing East and West is wrong both in philoophy and, more generally, in spiritual culture. During his visit to India (December 1980) L. I. Breinney stressed the importance of cultural cooperation between the Soviet and Indian peoples, the peoples 'of two great world cultures that have produced builliant thinkers, writers, artists and scientists'.

All nations follow similar paths in their cultural development, which can ultimately be explained by the common regulattics of material production. Indian philosophers concerned themselves with the very questions studied by their Western counterparts. This is not to say, of course, hast philosophical doctrines are identical in different cultures. Their content is influenced by the features of a country's history, culture, traditions, etc. Nonethics, the general laws governing the evolution of different philosophical doctrine must be taken into secount.

<sup>1</sup> Jawaharlal Nehru, The Discovery of India, Asia Publishing House, Rombay, 1961, p. 100.

## 4. Historical Forms of Materialism

Philosophy arose as a special form of social consciousned in the time when primitive-communal societies were duintegried and class society was beginning to energe. There was addifferent even at that tune, between the materialist and idealist wer on the world. Both have travelled a long way in their dealing ment and have taken many forms.

The first policies of the property of the prop

It was in essence a pontineous and naive materialism. It was in essence a pontineous and naive materialism Acros in the control of the Charvakia in India (6th century B.C.), eventhing the world consisted of four elements—fire, air, water and early even living creatures were made up of these elements, man bein o everption. Consciousness, a property of human being and emerged from the combination of these four elements in the lem and body, and disappeared with the body's death. The Chardakia saw no sense in the religious teaching on the relicaristic of soult (sameara) and denied electrines of the relicaristic doctrines, and were consequently hatted by the priets and selvocates of orthodox religion who destroyed the bulk of the vortimes.

The ancient philosophers' naive materialism was usually combined with spontaneous dialectical views on the world. One should note in this context that the opposition of materialism and idealism have posen matched by the struggle between dialectics and metaphysics for a correct conception of the world Dialectica sunder that nature's objects and phenomena are interconnected and undergo qualitative changes which result from their inherent contradictions. The latter are the source for the development of all phenomena of reality

Therent in metaphysics is an opposite view on the world. Metaphysic sees the world as something immutable, remaining in the same state. Moreover, it denies any connection among things or any internal contradictoriness of natural phenomena, as well as any development of the world, or conceives of it in an extremely narrow-minded way.

In the history of philosophy materialists and idealists have held either dialectical or metaphysical views or a combination of both. One must therefore take a concrete historical approach to the characterisation of these two trends, of which more later

cnaraccerastion of these two trends, of which more later. The auchien publicospher's nave materialism, as we have noted above, was spontaneously dislectical. This means that they saw the world as it seemed in man's direct living contemplation, and sought to conceive of nature as a moving and developing whole that constantly alters the forms in which it manifests stuel? The outstanding Greek philosopher Herachius (c 530-470 BC) bande everything that causts on the material element—fire, and explained the overall rotation of natural phenomena by changes in fire. He taught that the world was one but also the many, was not created by gods or man, but always was and always will be eternally tiving fire, regularly being ignited and regularly being extinguished. Everything flows, everything changes, he said, there is nothing immovable. According to him, a transition from one state to another takes place through the struggle of opposites and according to onecessity.

A spontaneously dialectical view of the world was also hold by another outstanding Greek philosopher, Democratus (c. 460-370 BC.). He taught that the world was a single whole consisting of an innumerable multitude of atoms, i.e., tiny, tavisible and indivisible particles moving in the void According to him, all thanges were reduced to varnous combinations of joining and disjoining atoms moving in the void according to natural necesity. He held that the movement of atoms was eternal, without be-simine or end.

Thus, the first historical form of materialist philosophy was naive and spontaneous, though it was marked by a dialectical view of nature. The above common was deschard by developing for severance that the contribute was great contexts to a section of the Developing to the Developing to the Section of the Contribute of the Contribute of the Section of Contribute that the Contribute of the Section of Contribute the Section of Contribute the Section of Contribute the Section of Contribute the Contribute that several than the Contribute that the contribute that the Section of Contribute that the Contribute that the contribute that the Section of Contribute that the Contribute that the Section of Contribute that the Contribute that the Section of Section Contribute that the Section of Section 1 the Se

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ponents, the English philosopher Thomas Hobbes (1588-1679)

Hobbes waged an uncompromising struggle against idealism, theology and scholastics and rejected the idea of God and the immortality of the soul. He conceived of the world as a single material substance. Matter was eternal and the separate bodies comprising it were temporary: they came into being and passed away. He treated matter as something qualitatively homogeneous. Material bodies were characterised only by their properties of extension, weight, volume, form and other quantitative magnitudes. Movement was a property of matter But Hobbes recogmised movement only in one form, that of the simple mechanical displacement of bodies in space. He likened man (as well as all natural bodies) to a mechanism, comparing the heart to a spring, the nerves to threads, the joints to wheels, etc. In his view the state was man's creation that arose from an agreement made by men to rationally restrict their natural rights in order to achieve universal peace. The state was the same mechanism as a separate individual, its soul being the supreme power, the joints the judiciary and executive organs, the nerves rewards and punishments, etc. The material world, he held, was knowable. The truth could be obtained through the intellect, by logical reasoning, i.e., methods of rational thinking But he reduced rational thinking to simple mathematical operations, in the belief that the study of all natural and social phenomena involved subtraction and addition

Not all the 17th- and 18th-century materialist philosophers, of course, shared Hobbes' views. Some of them emphasised the role of sensuous experience, perception and the empirical method in the cognition of reality (Bacon and Locke in England, Longotosov in Russia, and others). Some philosophers, such as Spinoza in Holland and Diderot in France, had dialectical elements in their views. On the whole, however, the materialism of those times was historically limited and inconsistent. In the case of Hobbes it was a mechanistic materialism, since it considered it possible to apply the sole yardstick of mechanics to chemical, organse and even social phenomena. Secondly, it was a metaphysical materialism whereby the world was seen as a sum total of disconnected things at the foundation of which lay an immutable substance that did not undergo any genuine historical develop-ment. Such again was the doctrine of Hobbes who saw only

quantitative distinctions between things and deried their quitative changes, since he interpreted movement exclusive at simple displacement of bedies in space. Finally, it was only in the lation to nature that the 17th- and 18th-century materials per the correct answer to the fundamental question of placents they remained idealists in their conceptions of society and hards All changes in society were explained by the action of spin factors, such as political or religious views, the will of indisoutstanding personalities, the dissemination of knowledge, But the materialists of this time were unable to explain the? sons for changes in people's opinions and views, and the role objective economic conditions in their life. This can again illustrated by the doctrine of Hobbes, who explained the en gence of the state, a major social institution, in purely sleaks terms as people's rational agreement about the organisated society, rather than by materialist reasons (the emergence of P

vate property and human exploitation, the dass struggle, etc.]
at atill, the materialism of ascendant capitalism was an atill atill the materialism of ascendant capitalism was a supportances materialism of the ancient would. Though me physical, it relied on a solid base of natural sciences and possible men with a philosophically substantiated method of investigation.

Many of metaphysical materialism's limitations were overcome by the 19th-century Russian revolutionary democrats Beliast Herzen, Chernyshevsky, Dobrolyubov and others, whose view constitute the third major form of materialism in the history of philosophy Their ideas reflected, on a social plane, the struge waged by Russian peasants and all progressives against autocraft and serfdom They rejected idealism and religious mysticism and relying on natural science, propounded the qualitative multimity and perpetual development of the material world The conceived of development as a dialectical process involving struggle of opposites and negation. In this they differed esentially from those who held metaphysical doctrines. The revolution ary democrats also expressed some materialist ideas on society but on the whole their views of society and its development were idealist, because they were unable to reveal the material causes of society's development and to provide a scientific subst

tantiation for the ways to build a social system free from exploitation

We have thus briefly characterised the main historical forms of pre-Marxian materialism Throughout its long development it was resisted by idealist philosophy. The philosophical conception of reality evolved in the struggle between these two main trends.

#### 5. Forms of Idealism

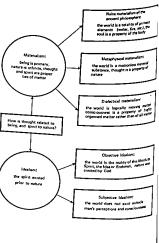
Idealism, which gives an opposite answer to the fundamental sestion of philosophy to that of materialism, has many forms, te main ones being objective idealism and subjective idealism. hese assume the primary of consciousness to matter, and differ serely in their respective conceptions of consciousness and thinkog. This can be best understood with evidence from the history f philosophy.

In ancient Greece a steadfast opponent of materialism was Plato (c. 427-347 B.C.), an ideologist of the slave-owning aristocracy who ereated one of the first systems of objective idealsm. Arguing against the materialist Democritus, Plato defended the primacy of eternal, immutable and independently existing ideas, 'spiritual essences'. The world of sensuous things, he said. was secondary and dependent on the supernatural spiritual world of ideas, which was a genuine existence. Ideas lived in the 'heaven which is above the heavens'. 'There abides the very being with which true knowledge is concerned; the colourless, formless, intangible essence, visible only to mind, the pilot of the soul."

Plato believed that matter was non-being. That is why sensuous things which he construed as a mere reflection of ideas and elements of non-being-matter-were changeable and transpent against the only genuine, immutable and eternal being of supernatural spiritual essences. Plato declared the world of ideas a divine kingdom of good and beauty, of absolute truth. This is the abode of man's soul prior to his birth, which disentangles from the material body after his death and departs to the supernatural world.

The Works of Plato, Ed by Irwin Edman, Carlton House, N. Y. 1928, p. 288,

## FUNDAMENTAL QUESTION OF PHILOSOPHY



Plato's philosophical views have much in common with the arlier objective idealist doctrines of ancient India. Thus, the Velanta philosophy, which provided a theoretical justification for Brahmanism, proclaimed the impersonal world spirit, Brahnan, to be the primary reality and the only essence It riewed the world of natural things only as something produced oy this spirit, as mere reverie or 'Brahman's dreams'. Māyā, i.e., the world of natural phenomena, was merely an illusion, superficiality, 'waves, bubbles and foam' concealing the absolute being. Brahman, from man, Man's body was seen as an outward shell for the immortal soul (Atman), which was a particle or incarnation of Brahman.

'That unmortal Brahman is before, that Brahman is behind, that Brahman is right and left. It has gone forth below and above: Brahman alone is all this, it is the best." "There is no other material of manifestation except Brahman,' wrote the Indian philosopher Shankara (788-820 A.D.), who founded the Advaita-Vedanta philosophy. 'All that is manifested is therefore Brahman and nothing else. . . All creatures have been born of Brahman, divine Atman. They are all therefore Brahman; this should be understood.12

Most important in the Vedānta, as in Plato's doctrine, was the spiritual principle that existed outside and independent of man's consciousness, matter and nature, or prior to it. In the final analysis, objective idealism is an expression of a religious world outlook in philosophical terms and concepts. It is in fundamental opposition to science and mankind's socio-historical experience. Needless to say, progressive materialist philosophers. relying on scientific knowledge, have resolutely refuted idealistic assertions about the supernatural, spiritual foundations of the world.

Subjective idealists, however, assume man's, subject's, consciousness rather than an impersonal spirit to be primary. In the 18th century, for instance, materialism was criticised by the English philosopher George Berkeley (1685-1753). He maintained that only those things present in the individual's sensuous experience

<sup>&</sup>quot;The Upanishads', Part II, Delhi, Motilal Banarsidass, 1965, p. 37. Shankara, Direct Appreherason, Voprosy filosofii, No 5, 1972, p. 11.

social force. This disproves some people's assertions that dial tical materialism existed in ancient India, ancient China a other countries.

Moreover, dialectical materialism did not arise just thron social factors. In the first half of the 19th century the mate scientific preconditions existed for the emergence of this form of materialist philosophy. Natural science had been riched by several outstanding discoveries. Of especial importahere were the discovery of the laws of conservation and transfe mation of energy, the cellular theory of animals' and plan structure and the Theory of Evolution originated by the get English scientist Charles Darwin. These and other discoren ran counter to the traditional metaphysical views of nature led to the conclusion that it was false to conceive of the week as a totality of isolated and immutable things. The successes natural science in the mid-19th century required that the prelent mechanistic notions about natural phenomena be about doned They convincingly demonstrated the qualitative variety forms of movement, the connection between them, the conte sion of some phenomena into others, and development in the various spheres of nature. All this provided an irrefutable are ment in favour of a dialectical outlook on the world. The great scientific breakthroughs of the period were theoretically general alised by Marx and Engels in creating dialectical materialism

Finally, theoretical sources also played an important right the formation of Marsut philosophy. It is necessary to dwelf or this aspect in more detail because the relationship between the lectical materialism and the preceding philosophy in the lectical materialism and the preceding philosophy in the allocation of the properties as a mere combination of the ideas propounded by the German philosophers Hegel and Feuerhach. Moreover, some people fast ascribe to Marsum a disregard for the valuable ideas weldow the properties of the

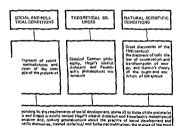
supreme moral ideals.

There is only one thing we can say about such assertions: the



are untrue. Marxism cannot be either opposed to or isolated from the achievements of civilisation. The founders of dialectical materialism provided answers to the questions posed by advanced thinkers of the past. Karl Marx, wrote Lenin, "based his work on the firm foundation of the human knowledge acquired under capitalism... He reconsidered, subjected to criticism, and verified on the working-class movement everything that human thinking had created, and therefrom formulated conclusions which people hemmed in by bourgeois limitations or bound by bourgeost prejudices could not draw." The three theoretical scarces of Marxim were German classical philosophy. Egglish

#### CONDITIONS FOR THE EMERGENCE OF MARXIST PHILOSOPHY



eral faws governing the development of nature, society and shounder

<sup>&</sup>lt;sup>4</sup> V. I. Lenm, The Tasks of the Youth Leagues', Collected Works, <sup>3</sup>. 31, Moscow, 1977, pp 286-87. Here and further quotations of Lenm <sup>5</sup>: taken from: V. I. Lenm, Collected Works, Progress Publishers, Mos-

postulates Hegel contrasted the dialectical method he we out on an idealistic basis to the metaphysical view of the word was predominant in the science and philotophy of the per Reality was interpreted in accordance with this method as a tality of interconnected and internally contradictory phenometata were thus subject to qualitative change and negation. He held that reality (let us recall that by reality he ultimately me a necessary form of the world reason's being) developed are ing to the dialectical law of the interpnetration of opposing, conversion of quantity into quality and the negation of supplies and other ideas of Hegel's could be used for developed the theory of dialectical materialism.

Yet on the whole Hegel, being an idealist, could not arrive a genuinely scientific understanding of dialectics. His philosop suffered from a deep-seated internal contradiction between tem and method. He tried to embrace all existing knowled about nature, society and consciousness in his system, claims to have produced the absolute, final truth. His philosophical st tern was therefore metaphysical in its foundation. His metho on the other hand, i.e., the way his Idea developed itself, w dialectical. Dialectics, as we know, rejects the state of final con pleteness and demands that everything be seen in infinite dev opment Hegel, however, sacrificed the positive thrust of his di lectical method to his conservative system of objective idealist According to him, development does not occur everywhere and always. There is no development in nature, it only takes place if the bosom of the Absolute Idea, constituting its base. The Abso lute Idea itself, having attained a certain stage in its develop ment, ceases to ascend further and comes back, which show that Hegel's dialectics is exclusively retrospective. Hegel believed that the history of society would end in a constitutional estate Prussian monarchy and the history of philosophy would culminate in his idealist system Hegel mystified development by reducing it exclusively to the dialectics of concepts. His was an idealist dialectic, just as was his doctrine as a whole. With Hegel di lectic, wrote Marx, 'is standing on its head. It must be turned right side up again, if you would discover the rational kernel within the mystical shell.

Karl Marx, Capital, Vol. I, Progress Publishers, Moscow, 1977, p. 29.

The founders of Marxism also relied on the materialist teachng of Feuerbach. Unlike Hegel, whose philosophy expressed the German bourgeoisie's political compromise with the Prussian eudal nobility. Feuerbach was an ideologist of the radical wing of the bourgeoisie in the 1830s and 1840s, the period of the nasent bourgeois revolution of 1848 in Germany. He resolutely opposed Hegel's idealism and idealist philosophy as a whole. Pointng to Hegelian philosophy's kinship with theology, he rejected the idealistic doctrine of world reason and argued that nature was primary and consciousness derivative of being. Feuerbach wrote: To make the spirit the beginning, the initial source, is to misinterpret the natural order." It is not philosophy's aim, as he firmly believed, to analyse empty abstractions like the Absolute Spirit, for it is altogether wrong to separate thinking from the brain, to conceive of it as something independent: one must study nature and man such as they are. Nature exists in and of itself and it should be explained of itself, man being a part of it. Nature exists in space and time. It is knowable, this knowledge being the result of reflecting the outside world through man's sense organs and thought rather than a purely logical process of developing abstract categories. In his polemic with Hegel he wrote. The old philosophy maintained that only the reasonable was true and real, whereas the new philosophy says that only the human is true and real; indeed, only the human can be reasonable; only man is the measure of reason,"

Thus, Feuerbach takes the living, sensous man as the starting point to his materialist teaching, thereby developing the so-called antireopological approach to philosophy. From the antireopological stand the criticises the details notion of the subject as abold at this creature and shows that the religious theory of the duality of soul and body is fantastic and false. Relying on his knowledge of natural science Feuerbach reinstated materialism which had been superseded by Hegelian idealism in the early de-

1846, p 339.

Ludwig Feuerbach, Vorlesungen über das Wesen der Religion', Gesammelte Werke, Vol. 6, Akademie Verlag, Berlin, 1967, p. 175.
Ladwig Feuerbach, 'Fhilosophische Kritiken und Grundsätze',
Sämmilliche Werke, Vol. 2, Druck und Verlag von Otto Wigund, Leippig,

cades of the 19th century. This is his great service to the main rialist world outlook.

On the whole, however, Feuerbach's philosophy was high ically limited and suffered from all the shortcomings already herent in eighteenth-century materialism. His anthropoler principle itself was metaphysical, for it treated man as a photological and times. logical and biological rather than a social creature. Real es cannot however be considered outside society and social related It is impossible to arrive at a correct conception of the history society from an anthropological standpoint, and Feuerbach an idealist in this respect. He believed that the different price of human history only differed from one another by changes religion Having discarded all former religions Feuerbach const cred it necessary to introduce a new, 'Godless' religion, 2 region of love. 'It is in love alone,' he wrote, 'that God ... is god and real', ... where we have only two people, husband and we already have religion's He essentially elevates settal los and sexual relations to the rank of a 'religion'. Instead of come ering these relations in terms of their natural social means, he demands that these purely human relations of love and fries ship be regarded as a new, genuine religion. It was of cours i concession to the religious idealist outlook. Another esential drawback of Feuerbach's doctrine was that his criticism of le gelian idealism disregarded the positive aspects of Hegel's disc tic. Feuerbach correctly insisted on the primacy of nature, but he was unable to comprehend its objective dialectics.

This brief survey of Heggles and Feuerback's philosophic views allows one to make judgements about the direct theories sources that played a role in the formation of dialectical matrix ism. To be sure, the founders of Marxism did not only crained laborate on just a few of these philosophers' rational ideal relaborate on just a few of these philosophers' rational ideal relaboration and the survey of the precursors. They also make theoretical generalisations about the achievements of automatical temporaries, used material from political economy and history.

<sup>&#</sup>x27; Ibid , p 323.

L. Feuerbach, 'Über das Wesen des Christentums', in Besiehung al den Einzigen und sein Eigentum, Kleinere Schriften, Vol. II, Alademi Verlag, Berlin, 1970, p. 436.

gave a critical evaluation of utopian socialist ideas. Of great importance in forming Marc's and Engels's dialectico-materialist views was their analysis of the working people's struggle against the exploiters, and their personal participation in the class struggle as proletarian leaders. All this predetermined the emergence of the highest form of materialism, a genuine revolution in philoophy.

## 3. The Revolution in Philosophy

The Marsia philosophy, worked out by Marx and Engels throughout their lives, was above all expounded in such of their lineapout and their lives and their lineapout their lineapout and their light works as The Holy Family (1845), The German Heelogy (1845), Manyleto of the Communite Erry (1848), Marsia Theses on Feuerbach (1849), The Powerty of Philosophy (1847), Capital (1867), Critique of the Conta Programme (1873), Enguis Anti-Dibring (1877-1878), Diabetics of Nature (1873-1806), Ludwig Feuerbach and the End of Classical German Philosophy (1888), The Origin of the Femily, Provate Property and the State (1881), and other works.

What is the Marxist revolution in philosophy? In reply to this question, we want to stress once again that the dialectico-materialist outlook on the world both rejected the whole preceding philosophy and used all that was valuable and progressive in it

and in human culture in general.

A fundamental feature of dialectical and historical materialtim is that above all it is a philisosphy of the working class; the theoretical basis of the world outlook of the most advanced and consistently revolutionary class of modern society leading, the straggle waged by the brand working masses against exploitation and social and national oppression. The philosophical decrines of the past (both idealist and materialist, except those of the utopian socialists and Russian revolutionary democrasty were the outlook on the world held by the exploiting classes. Philosophical ideas were the property of a narrow group of "aritocrasts of the spirit" within the ruling class, rather than that of the people. These licas were decure and alien to the interest of the millions of ordinary people. In social terms, the former philosophers, ideologists of the exploiting classes, only helped establish as new form

BASIC DIFFERENCES BETWEEN		MARXIST AND HEGELIAN PHILOSOPHY
QUESTIONS	HEGELIAN PHILOSOPHY	MARXIST PHILOSOBHY
Which of the principal philosophical trends develops farther? Which new elements have been introduced into it?	Objective idealism Laws and categories of dialection	Materalism Dulectical and historical materalism
Which method of throking does it employ and how consistent is it?	Dialectical method but applied informatiently	Distruction attent it method. Applied consi- tently
14.6 complete philosophical system possible?	, tes	Impossible sinte the world is developing an infinitum and is incontracted.
How does it relate to other sciences?	Imposes conclusions that run	quality and quantity Refer on other sciences and below as
	counter to reality	drelop them
monutaries of which class does it represent?	German bourgeouse	Working class
What social goal does it have?	To prove that the world is restonable and to make people	Recolutionary transformation of the woold

economic and political oppression rather than abolish all evilation. The emerging dialectical materialism signified a clean eak with earlier view of philosophy which regarded it as a busis is for individual thinkers. 'As philosophy finds its material rapons in the proletariat, so the proletariat finds its spiritual rapons in philosophy...'<sup>32</sup>

Marxist philosophy, unlike earlier materialist teachings, is arked by revolutionary dialectics. Pre-Marxian materialism as essentially metaphysical, from which standpoint it was imposole to form a scientific conception of nature and human history. letaphysical materialism could not serve as the proletariat's spitual weapon in the struggle for a socialist transformation of soety Marxist philosophy marks the collapse of the metaphysical orld view and is at the same time opposed in principle to the lealist conception of history. Hegel, for example, was concerned xclusively with the dialectics of thought and concepts He reated development only as a negation of one intellectual essence y another one, rather than as a real process of changing the hings of the material world. The Hegelian dialectics produced, properly speaking, only an illusion of development, while actually establishing and justifying what existed. Materialist dialectics tlone, created by Mark and Engels, is a scientific philosophical outlook on the world and an effective method of cognising and changing it Materialist dialectics brings out the internal contradictoriness of natural and social phenomena and their development in the form of leaps and negation and is thus in essence critical and revolutionary. The radical upheaval in philosophy wrought by Marxism also consisted in the materialist answer it gave to the fundamental question of philosophy not only with regard to nature (which was also characteristic of past materialists) but also to society (in respect of which all previous thinkers, materialist and otherwise, had held idealist views)
Marx and Engels extended materialism to an understanding of social life, that is to say, they created historical materialism. This was not a mere application of dialectical materialism to the

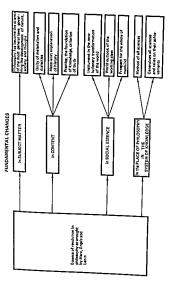
<sup>&</sup>lt;sup>1</sup> K. Mark, Contribution to the Crusque of Herel's Philosoph Law Introduction, In: Karl Mark and Frederick Engels, Coll-Wesls, Vol. 3, Progress Publishers, Mostow, 1933, p. 187.

tory of human society. Dialectical materialism could ast of arise without a materialist explanation of the laws governing the development of society. At the same time, these laws case, development of society are the same time, these laws case, analysed outside a dialectico-materialist approach. Dadraj and historical materialism therefore arose, and are now deving, as a single philosophical Marxist teaching. The manifestive of society is based on establishing the determining the matery played in social processes by the developing professors and production relations, by labour and the social of the masses. Historical materialism has made it possible to crive of human history as a law-governed process of derment and replacement of socio-economic structures, to draw transient nature of the capitalist mode of production and to point the working class as the grave-digger of the bourgesis the architect of a new, socialist social system.

The revolution in philosophy means finally that Marxish put an end to the distinction between philosophy as pure the and the practical activity of the working people and to the for er materialism's contemplativeness in cognising reality, had in mind all philosophical doctrines that served as the idea of the economically or politically dominant classes, Marx for lated his famous thesis: 'The philosophers have only interpet the world in various ways; the point, however, is to chang The problem of providing a correct interpretation of the is also relevant to the philosophy of dialectical materials Marx's aphorism means something different. We must not be isfied with a mere theoretical interpretation of the world, for this can mean the justification of a social order interest to the cal to the oppressed and exploited masses. The ideologist of exploiting classes have for centuries imposed on many country including India, their view of philosophy as something alrea and distant from the burning issues that are of immediate eern to ordinary people. Shankara, a prominent property of the idealistic Vedanta doctrine, wrote that the philoster must stand outside of life and look on it. Such contemplate

K. Mare, Theree on Feuerbach', In: Karl Mare and Joseph Fractio, Collected Worls, Vol. 5, 1976, p. 8.

Radhalushan, Indian Paldespay, Vol. 1, The Marmilla Coparty, Coneye Allen and Unwin Ltd., New York and London, 1911. P.



philosophy, according to Marx, must be opposed by a phlosywhich provides a scientific view of the world and submirthe changes in the latter; dialectical materialism is presidkind of philosophy. The world can only be changed first people's practical revolutionary activity. Thus Marxien is a people's practical are violational materialism) and practical heavy (dialectical and historical materialism) and practical profetanat's class struggle and the working people's tile build a socialist and community society).

Such are the qualitative features of dialectical and bis materialism that, taken in their totality, signify the M revolution in philosophy.

## 4. The Proletariat's Scientific Ideology

With the emergence of dialectical and historical material philosophy became a science. As we have noted, pre-Mar philosophy was also connected with scientific knowledge. past materialism was inconsistent and restricted by metric and idealism essentially presented a distorted picture of rethough some of its proponents had positive aspects to their trines. Moreover, pre-Marxian philosophy often gave 2 often view of its relation to special sciences. The subject-matter philosophy and special sciences was not clearly different Philosophers, such as Hegel, often created all-embracing 550 while Marxism defined the subject-matter of philosophy in a way Special sciences, such as physics, chemistry, biology, his law, mathematics, etc., study the laws and phenomena of rate spheres or aspects of the objective world. Unlike them, lectical materialism provides a scientific solution to the problem the relation between consciousness and being, reveals the general properties of matter, studies the fundamental has d development and the forms and methods of cognising reality man, and pinpoints the fundamental motive force of social de opment. In short, dialectical materialism studies the most f eral laws of the development of nature, society and hum thought. Marxist philosophy investigates these laws, rehing the latest achievements in natural and social sciences and by eralising from mankind's practice and historical experience.

The scientific nature of dialectical materialism is unalakeably innected with its partisambip. Martist philosophy is a consist it dialectico-materialist teaching. It is opposed to all ideals and metaphysical doctrines. As an expression of the work atlock and social self-awareness of the working class, dialectics and historical materialism is the theoretical basis for communis feology. Ideology is the refliction of reality in the light of classificates. The protestain ideology has a scientific character income the fundamental interests of the working class correspons the determining trends of social progress. By bringing out these rends, therefore, Martist philosophy serves as an ideologic.

weapon in the revolutionary transformation of the world.

'In the name of a real, human person—the worker, trample,
lown by the ruling classes and the state,' wrote Lenin abou
Marx and Engels, 'they demanded not contemplation, but
struggle for a better order of society.'

uruggie for a better order of society."

Here one should note that frequent allegations that Marxis
Leninist philosophy disregards the problem of humanism and of
man, are completely groundless. Opponents of dialectical matralism often maintain that concentration on general laws of be
mig excludes man from the sphere of philosophical reflection. O
these grounds some assert that Indian philosophy must see
towards the bourgeois philosophy of estimatism rather tha
towards Marxism, since the former has focused on man's estence, its meaning, etc. But this idealist doctrine is unable to solv
the problem of man correctly, or to point out ways to end the

crisis of the individual under capitalum. Only dislection-materials philosophy gives a genuinel scientific characterist philosophy gives a genuinel scientific characteristic philosophy is more man, on the contrary, it elevates him, substantiating united opportunities man has to cognise the world and tran form it in a revolutionary way. The main thing, however, is the dialectical and historical materialism is a philosophy of real hi mains. It does not merely state, as existentialism does, man

suffering and the tragic nature of his existence in capitalist sc

V. I. Lenin, Frederick Engels, Collected Works, Vol. 2, Moscon
1963, p. 23.

ciety, nor does it just call for the establishment of humans to tuns among people. It also pinpoints the means to implie humansis ideals. Unthies idealist (particularly modern enters its) or contemplative materialist world outlooks of the part dialectico-materialist world outlook is the most advanced on outlook of today. Its principal idea is the law-governed understand outlooks of the part of the p

## 5. Mark and Lenin

Dialectical materialism differs from all preceding philosophe systems and modern bourgeois and revisionist doctries in systems and modern bourgeois and revisionist doctries in Gord principle. Marxist philosophy is a dynamic, creative tending principle. Marxist philosophy is a dynamic, creative tending sic constantly being enroched and developed on the basis of seis ocustantly being enroched and developed on the basis of seis practice and new scientific achievements. Marx and English practice and new scientific achievements. Marx and English as a guide to social action. Throughout their lives they are not the philosophy of dialectical and historical materials.

A new stage in the development of Marxist philosophy is of nected with the name of Lenin, who upheld it against distorted by opportunists and the attacks of reactionary bourgeois idea ogists. At the same time Lenin creatively enriched Marsis Police sophical teaching by analysing the new historical conditions of the imperialist epoch and by generalising from the experience of the proletarian revolution and building socialism as well as from the achievements of modern natural science. Among Lenin's funded philosophical works are What the Friends of the People Are sti How They Fight the Social Democrats (1894), What Is to Done? (1909) Done? (1902), Materialism and Empirio-Criticism (1908), and osophical Notebooks (1914-1915), Imperialism, the Hills Stage of Capitalism (1916), The Right of Nations to Sel-Determination (1914) termination (1914), The State and Revolution (1917) and Os the Significance of Militant Materialism (1922). Lenin subordinated his analysis of nated his analysis of philosophical problems to the objective d the revolutionary working-class movement, His development dialectical and historical materialism is inseparable from his poluteal activity, from the history of the Communist Party of the Soviet Union and from the international working-class and communist movement.

One should stress at this point that it would be absolutely wring to contrast Leniu with Marx. Some maintain that Marx was a philosophier, a theoretician, while Leniu was a practical worker little concerned with complex philosophical problems. It is also alleged that Marx relied on his recognition of objective economic necessity and was a humanist, while Leniu regerted regularities in history and relied exclusively on force. There are also suggestions that Leninium is none other than a purely 'Russian Marxisma' and is hence inapplicable to other countries, particularly India. There are speculations about Chinese, Yugoslay and other brands of vanisorial Marxisma' and Iradical Marxisma' and Iradical Marxisma' and Iradical Marxisma'.

All these assertions are deeply erroneous or wilfully distort the point in question. Lenin was certainly not just a pragmatist unconcerned with philosophical problems. Without a correct theory there can be no success in revolutionary action. Lenin creatively developed all the component parts of the Marxist doctrine. He also provided a profound analysis of topical philosophical issues. He comprehensively developed the problems of dialectical materialism. He formulated a scientific definition of matter, elaborated on the thesis that motion and matter are inseparable, and revealed the laws governing the cognition of truth His substantation of the concept of an unbreakable union between natural science and philosophy is of signal unportance. Lenin was the first thinker in this century who perceived the start of a mighty scientific revolution in the achievements of contemporary natural science. He revealed and made philosophical generalisations about the revolutionary meaning of the great naturalists' fundamental discoveries. His idea of the inexhaustibility of matter has

become a common principle of modern science.

Lenin devoted special attention to a further development of
Marist dalectics and historical materialum. He comprehenively investigated the dialectics of social development, the interaction of economics and politics and the connection between
social being and social consciousness. Lenin gave a Marsis analjilis to new phenomena in the development of capitalism in

the new has rical epoch, and moved out the thoney of our tabers, which serves as a sejectific base for the grant of the tien of the communities and workers' parters He hard to n chestrajone is a betreuter checklond exterrient be for any rethe eye of matching providings

Like Mars, Lenin taught that the weld priers it less? erned and that a revolutionary transformation of capital and is notally necessary. He further developed Mary design decisive sole of the popular masses in historical acter. It completely groundless to argue that there are difference level Lemm's and Mara's views on the laws of social development humanium. Hey are unanimous on this and other point, he is no other way to real humanum but through a beautiful necessary socialist revolution. It is an indispensible medical building a communist society with its genuinely humane god translating the ideas of equality, freedom, frauerity, Loc

peace and happiness for all people into reality. Lenin revealed new opportunities for speeding up the rest lutionary process, which involved a subjective factor at a total when the general preconditions for replacing capitalism he shall be strong to the process of the cialism had already matured. The Bolshevik Party, bended by Lenin, led the people of Russia to victory in the Great October Socialist Revolution of 1917. This was a brilliant confirmation of the objective truth and the revolutionary transformation role of the Marxist-Leninist scientific theory and its unity revolutionary practice. The experience of history and to unity social development demonstrate that it is quite untenable present Lenmism as a purely Russian phenomenon.

Lenin worked out the theory of world socialist revolution, and substantiated general regularities of socialist revolution and recialist construction in all countries. At the same time he should that various forms of socialist revolution and methods for its working class's revolutionary actions were possible and inevitable as were specific forms for the organisation of socialist Lenin taught that 'fundamental revolutionary principles be adapted to the specific conditions in the various countries.

V I Lenin, Third Congress of the Communist International, July 12, 1921

<sup>22-</sup>July 12, 1921. Speech on the Italian Question, Collected World, 13
32, Moscow, 1985, n. 468 32, Moscow, 1965, p. 465,

Oi goat Importance for the developing countries are Lenin's ostulates that successful national liberation revolutions hinge in the active impolement of the masses and above all of the rowing working class into social management; on the alliance of the working class with the pessantry, on the development of road democracy and on the reliance on world socialism and the international working-class movement.

Thus, Leninism is the only true and consistent creative development of Marxism, rather than one of its many 'interpretations', Jawahatali Nehrii was quite right when he wrote: The greatest modern exponent of Marxism has been Lenin. Not only did he expound it and explain it, but he lived up to it. And yet he has warned us not to consider Marxism as a dogma which cannot be varied. ...

'It is well to know these theories, because they are moving vast masses of men and women to-day and they may be of help to us in our own country.'

Marx and Engels founded the philosophy of dialectical and historical materialms. Lenin raised it to a new stage. The Marxist-Leninist philosophy, this living, creative teaching, is constantly being enriched by new conclusions and theoretical generalizations.

The bulding of communium and socalism, the development of the world revolutionary process, the growth of the rational liberation movement and the exacerbation of the ideological struggle require further development of Marxast-Leiniat philosophy. The collective work of the Insternal communist and workers' parties and the efforts of Marxast philosophers from different countries have produced a number of fundamental these deepening the dialectico-materialist teathing. These concerns in particular the conclusions on the general regularities of socialist revolution and socialist construction, on the main contradiction of the modern epoch, the essence of mature socialism, the methods of building communist society, the dialectics of the struggle for demoracy and socialism, etc.

Jawaharial Nehru, Climpses of World History, Being Further Letters to His Daughter, Written in Prison, and Containing a Rambling Account of History for Young People, Lindsay Drummond Limited, London, 1949, p. 548.

Important philosophical postulates have been formulated a Marcust-Leninist theory, connected with the rapid development of natural science in the current scientific and technical root on Discoveries in nuclear physics, operations, biological contents are interpreted in a dialectico-materials light other sciences are interpreted in a dialectico-materials light

In his Report to the 26th Congress of the CPSU (27 february 1981) Leonid Brezhnev stressed the importance of the cut we development of the Marxist-Leninist theory and great sation of new developments in life, of the need to apprehensive the company of the control of the control of the cut of the

The main thing, it is aid, is that Communist, armed sei the Marasis-Leninust teaching, see the essence and period the Marasis-Leninust teaching, see the essence and period of the processes in the world more producibly and more or rectly than anybody else, and draw the right conclusion in them for their struggle for the interests of the working the working people of their countries, and for democracy, yet and socializm.

The 26th Congress of the Communist Party of the Sort Union made a substantial contribution to the creative deelyment of the theory of Marxum-Leninism. Its material pressure a fundamental scientific analysis of the modern trends of said progress, develops the Soviet Peace Programme with an et a the burning, vital international issues of today, and formulate the guidelines for the economic, socio-political and cultural progress of developed socialits scotety.

Each new stage in social and scientific progress present and kind with new problems, and they can be correctly solved due course only from the standpoint of a modern scientific losophy Marxism-Leninism is precisely such a philosophy

hapter III
HE WORLD
S LAW-GOVERNED MOVEMENT
OF MATTER

The starting point of the Marust-Lennist philosophy is the succept of matter. "Matter is primary," wrote Lenni 'Sensation, thought, consciousness are the supreme product of matter organised in a particular way, Such are the views of materialum in general, and of Marx and Engels in particular." The study of the foundations of the dislection-ematerialist teaching must therefore begin with an inquiry into the concept of matter. This is necessary above all for a correct understanding of the

essence of materialist philosophy. The fact is that the concepts 'materialism' and 'idealism' are far from always correctly used. Ordinary consciousness often interprets idealism as a disinterested approach, involving a belief in virtues, a love of man and an aspiration for ideals, and imposing expressly negative features on adherents of materialism. Thus, spokesmen for orthodox religion which reigned supreme in India for many centuries. grossly distorted the materialist doctrine and tried to present it in an unseemly light. Materialist views were equated with the most base sins, such as laziness, greediness, drunkenness, theft, deprayity, gluttony, self-interest and stingingss, and believers were forbidden to study such views or even communicate with their adherents in any way. This distorted interpretation of materialism served as a basis for inculcating the idea that materialism was in general untenable and mapplicable to Indian conditions

But materialism has nothing in common with such distortions

<sup>&</sup>lt;sup>3</sup> V. I. Lenn, 'Materialism and Empirio-Criticism', Collected Works, Vol. 14, Moscow, 1962, p. 55.

Moreover, only materialism can serve as the basis for \$50.00 ing human relations according to the laws of best as a marum. The word 'materialium' derives from the converts.

ter. Accordingly, we shall now proceed to describe at a concontent

1. The Fredation of the Concept of Matter

the world. Prakriti was primordial matter, the changes in which resulted in the formation of the Universe It was commiscient, cternal and one. It was the cause and real creator of the world, while purusha (the spirit) was only its attribute or property Prakriti engendered five material elements—earth, water, fire, air and ether—whe combination of which formed the whole world, including gods and men This docture of primordial matter expressed the ancient thinkers' spontaneous and naive materialism.

The 17th- and 18-century metaphysical materialists treated matter as natural substance, as the ultimate essence and universal basis of all things Substance was equiq out (cause of itself), it was absolute, immobile, uncreatable and indestructible, it was immutable and homogeneous. It thus differed from individual things and objects which could change, appear and disappear A view of matter as the totality of nature's material bodies had taken shape by that time and remained in force until well into the 19th century. It ascribed to matter such specific physical properties as mechanical mass, extension, inertness, impermeability, atomic-molecular structure, and mechanical motion. For the time being such views did not contradict scientific data. However, at the turn of the century physics witnessed a revolution that radically changed the traditional views on matter, its structure and properties. Mechanistic and non-dialectical materialism could not explain the newly established facts about how mass changes depending on the velocity of physical objects, about radioactivity, the transformability of atoms, and the discovery of electrons. A view became widespread that matter had 'disappeared', while idealists of various hues asserted that the new physics had 'refuted' materialism. The category of matter obviously needed a different interpretation from that obtaining in the past.

In his famous book Materialism and Empirio-Criticism, Lenin showed in his pelecuic with dealism that a revolution in natural science could only mean the collapse of the former metaphysical notions of matter rather than its disappearance. These new discoveries in physics, together with modern scientific achievements, can only properly be interpreted from a standpoint of disloctical materialism. The critis of shwairs at the

turn of the century is explained by many naturalist being in nocent of dialectic. They ascribed too narrow and ultimarincorrect a content to the concept of matter. What definition of matter, then, could combine a univer-

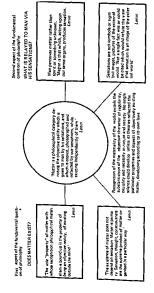
What definition of matter, then, could combine a montry of world outlook with heuristic significance? Such a setion was formulated by Lenin. "Matter, he said, a sesophical category denoting the objective realty with given to man by his sensations, and which is copied, a graphed and reflected by our sensations, while exhing the dently of them." Let us point to two essential feature is Marxit philosophy's conception of matter.

Matter, as one can see, is defined within the framework the fundamental question of philosophy, in the control relation to consciousness, rather than according to the trail of pre-Marxan materialism that opposed matter as an itable substratum to changing things. The scientific definition matter places major emphasis on its essential distinction from the consciousness, since it is of paramount importance for joscophy

This definition above all stresses the property of all object and phenomena of the surrounding world to exist objects outside and independently of man's and mankind's concisions. Matter is also an objective reality that his tent of dered by nobody and by nothing, and it does not preuper reasons or conditions for its existence. It is in this stars, as than in terms of some absolutely immutable primordial even that we can refer to the substantiality of matter as an expension of its primacy. Matter is in itself the source of the inflate utforms of the property of the substantiality of matter as an expension of the primacy of the property of the prop

Finally, the dialectuco-materialist treatment of mitter liemphasis on the things and phenomena of the outside volbeing sensions and natural rather than supersensions and a pernatural in character. The surrounding material things as phenomena directly or indurectly (e.g. through instrumes's in scientific experiments and observation) affect our sens of

VI I Lenin, 'Materialism and Empirio-Criticism', Collected Book.



can and are perceived by them. The materiale of its in-insparable from the sensual character of its material. This distinguishes matter at objective reality from the tive reality of world reason, Brahman, the Andre Lany other religious, idealistic notion that can only be on but not given in man's sensitions.

The alowe prompts one to the conclusion that is we remonents to include any specific characteristics (principle, iteal, etc.) in the philosophical encorept of matter size wrong, for example, to reduce the concept of matter size per of indiance (gas, lippid), crystals, etc., or de pa (atoms, molecules, etc.) that go to form it. The elements of field is obspective, sensorily perceived reality, just as a particular of the properties of the process of the properties of the process of the properties are also many other forms of matter in the world that are also many other forms of matter in the world that are also many other forms of matter in the world that are also many other forms of matter in the world that are also many other forms of matter in the world that are also many other forms of matter in the world that are also many other forms of matter in the world that are in their quality and unknown to science. Matter is leastly varied and inevhastatile in the specific forms of in iteration.

# 2. The Infinity of Nature

Scientific knowledge of matter is continuously develo and delving deeper Our ideas about the properties of the nomena of the surrounding world and the structure of d tive reality are becoming more diverse. The philosophical cept of matter incorporates recognition of the infinity inexhaustibility of the objective world "The "essence" of the or "substance", Lenin wrote, 'is also relative; it express the degree of profundity of man's knowledge of objects, and while yesterday the profundity of this knowledge did not beyond the atom, and today does not go beyond the tlett and other, dialectical materialism insists on the temporary ative, approximate character of all these milestones in knowledge of nature gained by the progressing science of mi The electron is as mexhaustible as the atom, nature is nite . The development of science over recent decades! fully corroborated this idea

V. I Lenin, 'Materialism and Empirio-Criticism', Collected Wat Vol. 14, p. 262.



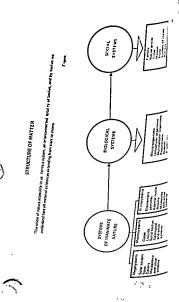
Delving into the heart of the atom, for example, has led to the discovery of over 300 varieties of elementary particles Some of them are stable, but the bulk are the so-called resonance particles, which are extremely unstable. New microparticles are being discovered in every passing year.

The properties of microparticles are truly inexhaustible. They possess mass, charge, magnetic momentum, structure, the ability to transform into other microparticle, etc. The microparticle will due no appear to be a further indivisible 'elementary' article of matter. Modern science views it as a kind of extendictor of the substance of which is two to three times hat of the substance of the atomic nucleus. The proton and cutton have proved to have a complex structure, while the incuture of other particles can only be guessed at from our vessent fragmentary knowledge.

An important step in revealing new forms of existence and orms of matter was the establishment of the unity of particles and antiparticles. Investigations have shown that each elemenary particle has a corresponding antiparticle that is opposite to it in some properties (e.g. charge). For instance alongside an electron, there is a positron (i.e. an electron with a positive harge), alongside a proton and neutron (nuclear partiles), there is an antiproton and an antineutron, etc. There might even exist whole atoms of antisubstance', a specific form of matter which differs from ordinary matter in that its structural elements are antiposticles.

Our notions of physical fields have also undergone substantial changes today. It has become known that, in addition to the electromagnetic field, the field of gravitation and the nuclear, electrom-position and other fields are essential in physical processes. It has also become clear that the boundary between physicals fields and substance is not so sharp as its seemed. Field and auditance interact and transform into each other at the mivrolevel. The distinction between, substance and field becomes

meaningless in the processes taking place within the atom. Thus, modern science has proved the fallacy of limiting the concept of matter to the properties of its substantial form alone. This must be specially stressed because of frequent attempts to treat discoveries of particular physical phenomena in an ideal-



ic way. For example, modern idealists refer to this transforation to back their assertion that matter has been annihilated d passed into non-material fenergy. Is that so? The above susformation should be regarded as a transformation of one nd of matter (substance) into another (field), not as the 'anhilation' of matter. The boundaries between different kinds of atter are therefore relative and specific physical characteriss of some separate forms of its existence cannot be ascribed objective reality as a whole.

The inexhaustibility of objective reality is revealed both in e cognition of the microworld and of the macroworld, the ace, Our Earth is one of the planets of the Solar system, and e Sun is one of the teeming billions of stars forming our alaxy, the Galaxy itself being a small part of the Metagalaxy he latter is the sum total of stellar systems moving in the st expanses of the observable part of the Universe Cosmic stances are tremendously great indeed

Not only cosmic scales are striking, but also the multiformity events occurring in the vast expanses of the Universe Qualitively new types of cosmic objects have been discovered, such 'black holes'-special celestial bodies marked by strong comession and the density of the substance—quasars and pulsars. heir gravitation fields are so powerful that they emit no radiaon, no particles,

Whatever wonderful natural phenomena science may be cononted with in the future, this will always mean one thing. e discovery of new aspects of matter infinitely varied and inex-

austible in its properties and forms.

## . Motion and Rest

Marxist philosophy closely connects the concept of matter ith the capacity of matter to move. To be an objective relity in its various manifestations means to exist in motion. Moon is an inalienable property of matter, its mode of existence nd an expression of its inherent activity

It is not very difficult to see that bodies are characterised by notion. Animals and people move in space, a mature fruit falls the ground, etc. Many pre-Marxian materialist philosophers recognised the universal nature of such instances of mechanic displacement, but they were unable to correlate motion we substance owing to their narrow, metaphysical outlook of world. Dialectical materialism has rejected the doctrin on the unmutable substance of the world. Matter does not visit water motion

Engels wrote that 'motion as applied to matter, is charge's general.'s Motion, taken in the broadest sense of the west abould be understood as any process of interaction, any charge unfolding in space and time. Changes in material objects are be external and internal, quantitative and qualitative, and cationarily, etc. Everything in the world is in class and motion: microparticles in their mutual transformations are actionarily across interactions, celestial bodies moving at colosal visé tess through space, laving creatures in continuous metables with the environment, society, with its member uncessing bour activity, and man's thinking activity which referes object we reality.

Recognition of the absolute nature of motion, i.e., that my ter cannot exist in any form outside motion, is not antimon to denying that there are moments of rest and equilibrium the objective world. Motion is the unity of two opposites, charge ability and stability. Rest is a persisting state of motion cessary for the relative qualitative definiteness of things to child becomes a youth and then a grown-up it undergoes particularly and more index ical and mental changes, though still remaining an indidual. To take other examples, a particular bourgeois state not be ruled by successive factions of the capitalist class, more of may exercise their domination in different forms ranging free military dictatorship to 'plural' democracy, etc. Yet the estaof these political changes is the same: monopoly capital the domination If motion lacked moments of stability and triple tary equilibrium the material world would be in a state of any phon, undifferentiated chaos. Adherents to the so-called retivism deny any rest or stability in motion. They consider ever thing relative and fluid and reject any qualitative definites

<sup>\*</sup> Frederick Engels, Dialectics of Nature, Progress Publishers, March 1974, D. 247.



systems Contrary to Newtonian notions, space must herde be regarded as heterogeneous in different points and rest the Universe, and the flow of time as irregular. Modern plow has substantiated changes in the extension of bodie said in poral intervals depending on increases in velocity, thus demostrating an inherent unity of space and time as objective forms the existence of matter

Needless to say, the relativity of spatial-temporal propris should not be interpreted as an argument to back the reison of material entities (e.g. microparticles) outside pace and Spatial-temporal relations are universal and necessify any material process (including those in the actic word), set in this sense they are as absolute as moving mater paint.

Spatial-temporal relations, as the fundamental conditions of the existence of moving matter, also possess some other properties. ties. Space, for instance, has the property of three-dimensionality, which was a specific to the property of three-dimensionality, which was a specific to the property of three-dimensional to the property of three-dimensional transfer to the property of the property of three-dimensional transfer to the property of the property o ity, which is also closely connected with the general regulation motion The position and extent of any body, as well as the resation of specific processes and the interaction of hodies in Fact can be exhaustively described with the aid of three coordinate (length, width and height). Physics uses the concept of fourthmensional mensional space-time, which results from the unification of the temporal with the three spatial coordinates, to describe the post tion and motion of bodies. Mathematics operates with the cept of multidimensional spaces. However, these spaces are in ical constructs used to denote relations between various properties (plane ties (plane, point, size, colour, temperature, velocity, pressure, velocity, pressure, etc.) as well as tor, etc.) as well as to express the spatial characteristics of cost and structure. and structure proper. The real space of matter in motion is the dimensional Modern science proceeds from this in its studies any processes of any processes of nature in the microworld, macroworld or come The spiritualist assertions that one comes across nowaday, the spiritualist of the distance of the spirits of the dead abide in the four- or n-dimensional part therefore are therefore nothing but mysticism, incompatible with similar

knowledge.

As dutinct from space, time as a form of the editors of matter in motion is unidimensional, undifferedional and irror sible. Material action is always directed in objective resting for causes to their effects The process of the self-development of the causes to their effects.

matter is irreversible, which is expressed in the way time is only able to change from the past to the future, not the other way round.

Time only flow in one direction and is ureversible Action 11 only possible in relation to present and future phenomena, and not to past one: The idealing philosophical these of the so-called inversion, or reversibility of time, which can allegedly flow from present to past, one content to the data of science. Modern natural science connects the urreversibility of time with the irreversibility of fundamental entropic, electrodynamic and contrological present of past of the present o

The conception of the world as logically moving matter prompts the conclusion that space and time are infinite. Matter is infinite because, firstly, it is absolute objective reality outside which no existence (of any Spirit, God, etc.) is possible. Secondly, matter is infinite in its structure and in the qualitative multiornity of the specific forms of its existence (of things, phenomens, processes, events, properties and relations). It is infinite, thirdly, but of its interest self-activity, self-motion and self-development that generate ever new forms of matterial bring. The infinity of matter in motion implies the infinity of the base forms of a setting the special content of the special content of the self-development of the self-develo

Metaphyricith from all periods have negated the infinity of the material work or mutance, the German philosophic Eugen Dishring (1833-1921), whom Engels scathingly criticised, because the state of the

At the 16th World Congress of Philosophy various bourgeois scholars tried to prove that modern cosmological data confirm the dogmas of the Act of Creation of our control to the confirmation of the Congress of Solice of the Congress of Solice of Congress of Solice of Congress of Solice of Congress of Congr

dius of the Universe), and in time (the creation of the Universe) from the prime atom).

However, modern scientific achievements do not commit

but serve to confirm more firmly the dialectico-materials ception of the world. Thus, the concept of the closed Unit and equally the existing models of the expanding and sating Universe, even if they can be explained in theer, refer to a certain part, a 'fragment' of objective reality, than to the whole world or matter in motion. The closed ty' and 'finiteness' of this 'fragment' of matter ('our Unit does not exclude but presupposes the existence of other, of less and varied worlds that may not necessarily look like Any material formation (be it an atom, the Sun, the the Metagalaxy or the whole of our Universe, which should in general be identified with matter in motion) has its limit space and its beginning and end in time. Matter, howers, its motion are infinite The material world, of which 'out' w is only one of the existing manifestations of objective removing in space and time, is also inexhaustible. This idea expressed by certain pre-Marxian materialists (Gordano & and others) and stressed by Engels, who said: For the rest eternally repeated succession of worlds in infinite time it the logical complement to the coexistence of innumer worlds in infinite space... What is more, there cannot e systems that are absolutely closed in space, and the model of 'closed' Universe can also be brought into question from t standpoint

The infinity of space and time is not revealed in an endmonotonous existence of matter in the same forms and 20' Objective reality is an endless emergence of qualitatively at manifestations of matter in moniton.

## 6. The Self-Development of Matter

It is to be stressed that dialectical materialism concents the motion of matter as its self-development. The totality of

# INTERCONNECTION BETWEEN THE BASIC FORMS OF MOTION OF MATTER

Motion, as applied to marter, is change to general

DIALECTICAL VIEW

One form of motion develops from another

Higher forms are reduced to lower ones

METAPHYSICAL VIEW

No account is taken of the action of tower forms of motion within

higher pres

Lower forms of motion are integrate into higher ones The higher form of motion is a new quality, not miredy a sum total of the lower forms

WIND IS CACLAND the higher usary which wither stieff unites mechanics physics, and chemistry into a whole where the trinsy elt, changes But the presence of these "Abbidiary" forms does not exhaust the essence of the main form in each case. For the orga-Organic life is not possible Can no longer be separated E.

changes occurring in space and time does not merely rebble transformation of some phenomena into other, existing server behenomena for other, existing server. The motion of matter engendering new forms of its referred. The motion of matter engenders objects of a higher held in more complex structure, possessing new properties and redictives. The development of the world consist precisely is reversible qualitative changes of material systems, involving different arising and passing away with progress and retrestment in quife arising and passing away with progress and retrestment in two conditions the energence under definite conditions of the energence under definite conditions of mination of its perfection, i. e., the thinking mind in with matter apprehends itself.

Attempts to classify the variety of existing changes have been desired time immemorial. The Greek philosopher divides made since time immemorial The Greek philosopher divides and the control of motion emergence, destruction, change in quiling of motion emergence, destruction, change in quiling decrease and displacement. Kanada (37d century face), food-error of the Vaishenka philosophy, subdivided all changes and the control of the contro

The motion of matter one could be a made of the motion of matter does not exist at an integral and not rectional 'flow of change', but as a variety of its discrete for substantially differing freen one another. This variet is direct, earlier than chance, and is marked by such relative aumple and recomplex, remetabling percenting and concepted interaction of lower and higher, have and derivative processing and secondary. But, matter in motion is not a simple provision of separate type of motion, but their coherent services and applied to matter as a whole its self-development death is undertreast as a transmission of some forms of motion into general relative to the contract as a strainment of some forms of motion into general relative terms.



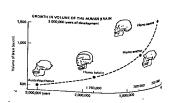
As science develops it discovers ever new forms of the metion of matter which cannot be ordered in a simple sequence of ries. Rather it is a multidirectional series which is based on proical forms of motion, the most fundamental of all, because the do not need any other forms for their existence. Other forms d motion do not exist 'in themselves' but arise on the basis of ser type of physical interaction. The physical forms of motion is clude: intraatomic processes and mutual transformations of the mentary particles; the forms of motion of macroscopic both (heat, crystallisation, changes of aggregate states, sound, range displacements in liquids and gases); mechanical motion as a tial translation of macrobodies; cosmic processes accompanies the formation of galaxies, quasars, pulsars and other astrophical colors and other astrophical colors. ical objects. All physical forms of the motion of matter and the acterised by four fundamental types of interaction between the elements of objective reality: (a) weak, conditioned by the diation and absorption of neutrinos-elementary parties with a tremendous permeating capacity; (b) strong pressing the Interaction of intranuclear particles; (c) electron magnetic, representing various interactions between bodies threst electric and electric and magnetic fields and determining most of properties of restrictions properties of material objects, such as solidity, colour, the activity, etc : and /2) activity, etc; and (d) gravitational, representing the process of interaction of all hand on interaction of all known bodies via gravitational fields and ping a determination ing a determining role in the formation of all cosmic objects

ung a netermining role in the formation of all comine operation. A more complete form of the motion funtier is represent by the sum total of elemical processes based on physical large of the control of the control of the complete formation of the control of the change and control of the control of the change and control of the control



such as thought, intuition, notions, arrantous, emission, or times, religious behalts, political ideas, howkeder, etc. A matries interpretation of this concept maker it poul is to Contain between the conceivous and unconscious for imprint ability processes in mans psyche, of which more lare like ability understand the term conceivouses in in breader summand and it is this interpretation that make it clear how discontinues.

opposite are the basic philosophical outlooks Idealuts consider that consciousness as the prime elements opposite to matter and attribute supernatural properties to spirit. They are the to consciousness (the Spirit, Idea, portaetc.) an ability to exist independently of matter, apart for a physical or biological processes. Moreover, they believe that or sciousness or mind has an inherent ability to create the mixing world which they represent as the 'other being' of the Abstraction Idea, 'the complex of the subject's sensations', etc. Complex ness, as something primary, infinite and absolute, is contrained material things which are deemed transient and finite, deeper tible and creatable. The idealists deny the possibility of applied scientific methods of investigation to spiritual phenomena as consider self-observation to be the only method of cognition them The idealist view of consciousness includes the idea of operation in man's organism of a special non-corporeal love, it



soul, which is allegedly the vehicle and cause of all his thoughts and feelings.

Materialist philosophers have always refuted such idealistic views of consciousness. According to the Charvakas, for example, consciousness arose from the combination of the four primary elements: earth, air, water and fire. The soul was a body possessing consciousness and did not exist separately from the body. The Greek thinker Democratus said that the soul was formed from a special kind of atom. Materialists have always sought to explain spiritual processes with physical reasons and were opposed to the doctrine on the 'immortal soul' existing independently of the organism. At the same time, the then dominant mechanistic and metaphysical notions presented simplified views on the nature of consciousness For instance, the Dutch philosopher Spinoza (1632-1677) interpreted consciousness (thought) as a universal property or attribute of matter, i.e., he in fact declared that all matter was animate. Such views are termed Hylozoism Other philosophers treated the mind as a simple material secretion of the brain (just as liver secretes bile) Such vulgar materialist views of consciousness were expounded in the nineteenth century by Buchner, Vogt, Moleschott, and others. Neither Hylozoism nor vulgar materialism, however, could stand the test of SCIEDOR Dialectical materialism assumes that consciousness is a product

of the bastoreal development of matter 11 us a property of matter in its highest, most organized form. The material substratum and organ of comelousness is the human brain. It is an excredingly complex material formation that took shape in the course of ambropo- and acolo-geness and has an involved biological standard organization of the control of the course of artificial properties of the control of the course of a differ from the animal brain both in quantity and quality. The ratio of the brain's weight to that of the organism as a whole is shown to have changed during evolution. The weight of the whale's brain is 1/1,000th of that of its body, the lion's brain 1/150th, the elephant's brain 1/50th, the spec brain 1/150th, and the human brain, 1/16th. The human brain is thus more than three times as heavy as that of an ape. The development of the creebral hemispheres and the increase in the number of turnous and convolutions in its survivue are of crucal impottance in psychical functions becoming more coupled la seen in a diatip increase in the number of new crisis from bral cottes, to nearly 15/00 million. Each of their is correwith 10/00 observe which enables the brain to perform for a long number in one-thousandth of a second.

I unctionally, the luman brain represent a prient reaction of three parts (1) the so-called reducitie formation (the glot until layers), (2) the back (occipital, sincipital and strategies of the cerebral cortex, and (3) the fronti serious of the parts (format lobes).

Thus structure, with possible individual difference, is one to all people. Science has proved that such ascribes grout to all people. Science has proved that such ascribes grout burgeous scholars as that there are allegedly inherent good antonial people of the science of the

Reality is reflected in the human brain when all its sales interact. The reticular formation serves to maintain a certain of of excitation at the cerebral cortex to enable it to take in mation and regulate man's active behaviour. The reticular fertion is itself regulated by the higher systems of the cortex ! back sections of the cortex exercise the functions of receiving processing and storing the information which reaches man the the external (and partially internal) environment. They and synthesis when the synthesis synthesise visual, tactile and auditory impulses received from the environment. The received from the environment of the received from the control of the received from the re environment. The frontal sections of the brain consist primary the frontal lobes of the large cerebral hemispheres, the young and most complex sections of the cortex that distinguish substantially in physiological terms from animals. They exercise to very important from very important function of building complex programmes of must actions, collection of building complex programmes of must actions. actions, collating the results of completed actions with initial mental actions and of completed actions with initial mental actions and of completed actions with initial mental actions. tions and of controlling man's behaviour. Violation of the portion functioning of any section of the cerebral cortex leads to ponding changes in a ponding changes in the psyche. Thus, disturbance of the complete and sincipital sections of the left cerebral hemisphere result,



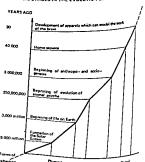
formations and states into others (the mutual transform elementary particles, of substance and light, and chamical scess); (e) in common origin and genetic lists, (the detarial living phenomena by bicehemical processes, and the emortion and transformation of energy in nature, the low of the mining role of material production in society), etc. Theore of the world as matter moving according to certain law is principle of dialectical materialism. This teaching alone catcluse to the exsence of consciousness.



new and higher form. The perpette of reflection colors and in the telephone more even ples in quality.

Reflection is mandered in the inequals well at least of ballets to change their internal states when affected by the states. He mechanical deformation of a body as a mily them, a constanter getting her as a result of an effect of passuing through in, the refraction of a bight are wises for freen one environment into another, e.g., from air to saving a result of the states of th

# BASIC STAGES IN THE EVOLUTION OF FORMS OF REFLECTOR



82

features it became selective. For organisms, reflection is connected with information received, i.e, with the reflection of various actions or effects on it. This is crucial for regulating the relations bevere organisms and the environment An elementary form of biological reflection peculiar to all luving matter is irritability as the organism's more or less definite reaction to external influences of abort duration. Such, for example, are tropism and nasta (plants grow towards the light, flowers close in darkness or cold, etc.)

Irritability and also sensibility inherent in animals are purely physiological processes; the further development of the animal world, however, brings about a new form of biological reflection— Pytchic reflection. The emergence of the psyche is linked with the Spearance of inacets some 250 million years ago. The psyche of animals became ever more complex with their further development.

The material apparatus and vehicle of all forms of psychic reflection is the nervous system, which attains its highest stage of development in animals who have an intractely organized tortex of large cerebral hemispheres Science has made great advances in its studies of the psyche. A very great contribution to the study of the laws governing the higher nervous activity of animals and man was made by the Russian scientist I. M. Sethenow (1829-1930) and I. P. 2400 (1819-1930)

Sechenov was the first to instate objective investigation into the nervous and psychical apparatus. Earlier it had been believed that the braw has not governed by the laws of the material world-in work-in work was not governed by the laws of the material world-in work was not governed by the laws a manifestant of the soul inserted into living creatures by God. Religion and the soul inserted into living creatures by God. Religion and the sluit philosophy were intent on propagating such views and the laws in the property of the property o

Pavlos further developed the scientific doctrine of higher nervous activity. He revealed the specifics of reflexes exclusive to man whose consciousness, unlike the psyche of anunals, is formed in social life and collective labour IIe also discovered the hanc laws underlying the activity of the animal and human brain

Later on the science of man's higher nervous arisin and recluded with new facts and discourier. Techny physic series most up-to-date methods in studying the work of the facing ing on the latest findings in playare, themistry, electrical other sciences. Modern scientific data confirm the markidostrine on the casence of consciousness and is qualitate 6 to the fact of the fact of the science of

## 2. Animal Psyche

The relationship between animals and the environment and their behavioural acts are based on reflexes, i.e., the organic responses, carried through the central nervous system, to similar the reflexes can be conditioned or unconditioned—that is by moorn—some examples are: the sexual instinct, the immost preserve one's progeny, the instinct for grographic orientation of the sample. Bees build rectilinear hexabedral early of the sample sexual precision. The acute angles of the translational precision. The acute angles of the from those stat from the base of each hexabedron are great from the sample was the sample sexual through the sample that the sample was a sample sexual to the sample sexual through through thr

Unlike unconditioned reflexes, which are, we repeat, expect to the influence of the environment, inherited by the organism of the reflexes are respect to the influence of the environment, inherited by the organism of the reflexes are reflexes at one to have the organism ing its life. Unconditioned reflexes do not have the especial at the animal to adapts, quickly and precisely, to charging extent all conditions, while conditioned reflexes through the formator of temporary links in the layster department of the central procession. If, for example, we feed a dog several times, surfaced lamp on before each feeding session, a conditioned reflex will appear in the dog after several sessions. As soon as the laws turned on the animal will react by salivatine, which means the

the dog has made a temporal connection between the light of the lamp and food.

Conditioned reflexes play an important role in the lives of animals because they cause the organism to react to them prior to the action of the action of unconditioned stimuls themselves (food, danger, etc.) A conditioned stimulus (light, smell, sound, etc.) signals as it were, the presence of phenomena that are important for the animal. A system of conditioned reflexes fulfilling the function of warring is therefore termed the 'first signal system'. It is common to both animals and man.

In the higher animals the conditioned reflex system is combined with an ability to analyse complexes of images that reflect not only objects and phenomena but also the comparatively complex relations between them. This is what forms the psychic reflection of animals in its most developed form, i.e., concrete or sensory 'thought' It is seen especially clearly in the behaviour of anthropoid apes. The following experiment was carried out on an anthropoid ape Fairly high up in a cage was hung some fruit To enter it, a fire had to be extinguished For this purpose a barrel with water was placed nearby After a series of unsuccessful attempts to get the fruit the ape abandoned haphazard action and started to behave consistently it scooped some water from the barrel with a mug and extinguished the fire; then it entered the cage, made a long stick out of two short ones and with it managed to reach the suspended fruit. An association of representations was thus included in its conditioned reflex system. The ape was capable of correlating the properties of various objects in a specific situation on the basis of the reflexes developed in it

In another experiment the same ape was placed on a raft which also supported a barrel of water and a rang. There was a second raft match which there stood a cage with bananas suspended inside. As in the previous experiment the fire had to be extinguished been entry was possible. What did the animal do? It reached the other raft along the plank spanning the two, failing to get to the control of the control of

to the ape that only the water in the barrel would extinguish to fire We can see, then, that its notions about the property things are scattered, and tailored to a given situation, ask thinking is elementary and concrete-sentuous.

All that we have said prompts the conclusion that consists is not a 'divine gift' or something supernatural, as alops of sign and idealism would have us believe, and there along matter and its immediate per-conditions like their along matter and its immediate pre-conditions like into far along matter and its immediate pre-conditions like into far along matter and its immediate pre-conditions like into far while pinpointing the genetic connection between human escusses and animal psyche we must at the same time at the temperature of the same time and the matter of the same time and the same time of the same time and the same time the same time and the s

# 3. Man: Conceptual Thinking

Man emerged from the animal world thanks to labour John passively adapt themselves to the environment, while passively adapt themselves to the environment, while rively influence it with the aid of specially made tools. However, the passive took many hundreds of thousands of years to emportant Landmark in the transition from anthropeid age used was the transfer to an upright stature, which enabled was the transfer to an upright stature, which enabled set twity. Initially, this activity was instinctive and primitive activity. Initially, this activity was instinctive and primitive acter. Even aper, as we know, can sometimes us sitel as not a specific feature of human labour is the use of manerals and the state of the could make better instruments of labor force of fire he could make better instruments of labor could process various natural substances and generally.

The gradually growing sophistication of man's action is as ing instruments of labour and in their use led to change in human organism as a whole Man's hand acquired a degret perfection and was able to perform various complete increases in labour the organs of the human body are increased. The development of the hand could not but influence to

development of the brain, and perfect the functioning of the large cerebral hemispheres, the brain being the organ that analyses signals coming from the organs of motion, above all from the hands. The inflow of the most varied stimuli to the brain gew immensely as man started processing various natural substances and objects. His sense organs, which were also developing in the course of his labour activity became qualitatively distinct from those of animals. The eagle, for instance, can see much further than man, but the human eye perceives much more in things than does the eye of a neagle

From the outset labour was social in character. The hard conditions of primitive merit sciences forced them to act together, collectively rather than individually. Joint labour called for the coordinated action of many people. Social relations took shape among people on the basis of their joint labour. All this gave rise to the primitive man's requirement and need to communicate with other people and form a means of intercourse Language, coherent speech was gradually evoluring in collective labour and life in primitive society as a means whereby man could express has inner state, his deirner, thoughts and feelings

The formation of language signified the emergence of a form of reflection that differed in quality from that of the animal psyche, viz., social reflection, conceptual thinking Animals, as has been said, have an intrinsic system of conditioned reflexes—the first signalling system. In man thus system is super-imposed by the second signalling system—speech The words (various names or labels of objects and their properties) perform a signalling function in man. They substitute, as it were, specific sensual stimuli which in their turn act as signals of unconditioned stimuli Speech is therefore a kind of signal of signals or, as it is called, a second signalling system. It is a product of man's adaptation to the social environment. An essential feature of a word as a real stimulus is that it always represents a generalisation. We say 'a house', for example, and abstract from this concrete, sensorily perceived features of individual buildings (a hut or a palace, a wooden or brick house, etc.). Only men have an ability for abstract thought Animals do not have this ability, as was shown in the example with the ape. Thinking in abstractions, or concepts, enables man to delve deep into the essence of phenomena and to reveal law-

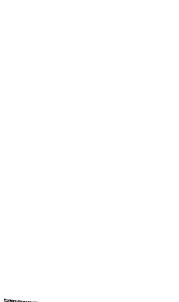
asserting himself as a personality. A child does not percent self. It does not identify itself as a particular 'Ego' and does consider itself distinct from the outside world. Realising out results from varied activity and communication with other p ple. It is expressed in man's self-control, self-perfection and g criticism The highest expression of self-consciousness is the dividual's consciousness of himself as a member of a collective understanding of his role in society and the consequent subst nation of his actions to the social aims of progressive form 1 deepest expression of man's self-consciousness is his collective as expressed in active participation in the class struggle and the life of society. Therefore, the afore-mentioned ancient 'Know thyself' requires a new interpretation today. Man's cape ity for self-consciousness can also lead to socially negative as as happens, for instance, when he directs himself towards contemplation' and 'self-concentration' in a religious framework towards a disregard for real life and escape into himself 'self-education', as allegedly the principal ways to attain person happiness Jawaharlal Nehru justly pointed out the need to out come such principles of religious consciousness. We have to f rid of that narrowing religious outlook, that obsession with supernatural and metaphysical speculations, that lossening of the mind's discipline in religious ceremonial and mystical emotions ism, which come in the way of our understanding ourseres set the world lar. the world. We have to come to grips with the present, this it this world, this nature which surrounds us in its infinite variety

Man's capacity for self-consciousness must therefore be considered distinct from his other qualities as a social being

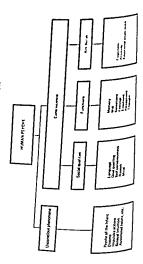
# 5. Consciousness and Language

The social nature of consciousness is also expressed in its call with language This unity results from the fact that language, the immediate reality of human consciousness Language is ancient as consciousness. It is consciousness in a practical, and form existing for other people and by virtue of this about for a given person. Language is a material manifestation

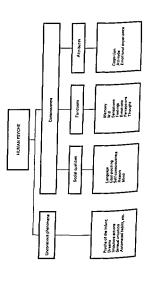
Nehru, The Ducovery of India, p 553.



STRUCTURE OF INDIVIDUAL CONSCIOURNESS



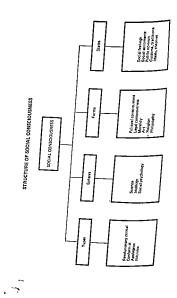




a function of the brain which reflects the outside world. It also presupposes interaction between people and the existence of so-cuty. Man's social activity plays, a determining role in the development of his consciousness, while the character and form of this activity stems from man's social being. Social being comprises the economic relations which form in the production of material wealth. Where there are exploiters and exploited social being differs.

Social being determines social consciousness. Since the social being of different classes differs, their members reflect social reality in different ways The bourgeon consciousness, for instance, perceives capitalist relations, based on the exploitation of man by man, as natural and the only possible relations for society. The exploited classes conceive of social being in quite a different way. To the proletarian consciousness, the capitalist order is synonvmous with the suppression and destruction of the personality and appears as something that has outlived itself in history and has to be replaced in a revolutionary way. The capitalist reality is uniquely reflected in peasants' consciousness. The peasants as a class occupy a contradictory position in social relations. On the one hand, they are connected with private, albeit small, property, while on the other, the peasants-primarily the poorer onesbear the brunt of capitalist exploitation. The peasant's contra-dictory position affects his social consciousness which is often inconsistent and irresolute and vacullates between proletarian and bourgeois standpoints, between revolutionary spirit and passivity.

To sum up, social conciousness is the totalay of views, idea and social feelings of a particular class that reflect its social being. The consciousness of the society in which man lives influences his spiritual world. At the same time there are important distinctions between individual and social consciousness, Individual, like social consciousness, is socially conditioned, but it reflects individual as well as social being. The consciousnes of a particular individual and that of the class to which he belongs may therefore be at odds with each other. For instance, commonalist and caste views that are alien to a profession conciousness perint for a comparatively long time among some workers with peasant background. Furthermore, not every worker has a feeling of class solidarity. On the other hand some members of



wealthy social strata (the intelligentsia and middle class) may adopt the position of the working class and help mould its ideolocy.

There are other differences between individual and social consciounnes as well. Thus individual conviciounnes, as a mental process, appears, develops and dies together with a person. It is therefore limited in time and seale. Social consciouenes, on the other hand, is embodied in culture (language, works of art, etc.) and in traditions, and is inherited by each new generation from the preceding one, its content being correspondingly enriched by each new generation.

A further difference is that, as we have already mentioned above, individual consciousness is correlated not only with indevidual and social being, but also with objectively existing social vidual and social being, but also with objectively existing social consciousness (the dominant forms of political ideology, reliad morals, etc.), while social consciousness is only correlated with the material side of life in society as it reflexes.

Finally, social consciousness can be fairly distinctly differentiated into such forms as morality, religion, political consciousness, art, philosophy, etc., while individual consciousness lacks such differentiation.

# 8. Social Psychology and Ideology

According to the functions it fulfuls, social consciousness can be dwided into science, social psychology and ideology. Science, which fulfuls the cognitive function, is a system of theoretically grounded doctrines on natural and social phenomena and their laws (the natural and social sciences). These are doctrines that adequately reflect ratility. Social psychology is a varied and dynamic totality of people's feelings, thoughts, moods and opinions that arise spontaneously as a reflection of their social being. Social psychology also includes the relatively stable phenomena of mass consciousness, such as rational exturons, redictions and nata consciousness, such as rational exturons, whole the represented as the people's emotional and empirical review of the consideration of their attitude towards them. A corresponding state of social mentality (the mood of the people, public opinion, social feelings, etc.) is indigenable for any social stedings, etc.) is indigenable for any social stedings, etc.) is indigenable for any social stedings, etc.) is indigenable for any social stedings.

ent classes and social groups have their own social an ical features. The emergence of the capitalist relaiduction and the further development of capitalism in features of bourgeois psychology as covetousness, ell terprise and thrift, greediness, merclieus cruelty, ratio sity, individualism, hypocrity, etc. The class psychoprotegratist, on the other hand, is unique for such quadiarity, internationalism, comradely print; respect

prolectariat, on the other hand, is unique for such quadiarity, internationalism, comrandely print, respect dignity, collectivism, organisation and discipline, class the espoliers, heroism and self-sacrifice, etc. An imption is held in social psychology by the feelings of naty and patriotism that form in the history of every per Unifice social psychology, ideology is the sphere of consciousness. Ideology serves to express social to sharply accentuating its class essence. Ideology does spontaneously but derives from a theoretical under the social being of a particular class undertaken by is:

spontaneously but derives from a theoretical underthe social being of a particular class undertaken by its: resentatives-ideologists. Ideologists, as we have no may also be members of other classes who realise that ing system is doomed historically and come over to t of the advanced social forces. Ideology functions as a philosophical, political, religious and other views, its ing elements being ideas that express the basic into class, its basic spiritual values, general outlook on the its programme of social action (class aims, ideals and For instance, in recent years some Eastern countries active in advancing Islamic slogans. The Communists : religious convictions of people professing Islam or religion The main thing, however, is what aims are p the forces proclaiming various slogans. Religious slo inspire liberatory struggle, but history bears evide reactionary forces, too, use religious slogans in Islamic ones, to their advantage. Hence, in assessing ideas one should proceed from the actual content of cular movement. Depending on the social force whose ness the ideology expresses it may be proletarian (sociali geois, imperialist, petty-bourgeois, peasant, feudal and A special point should be made about the relation ideology and science. References are often made to the

incompatibility, that of class interest and non-class truth, but in this case the differences in the content of socialist and bourgeois ideologies are being deliberately concealed. If we take the ideology opy of the working class, whose interests correspond to the objective regularities and trends of social progress, it is deeply scientific. The working-class ideology is the Markst-Lennist teaching, the truth of which has been fully corroborated by the course of modern history.

The socio-psychological and ideological components of social consciousness influence the individual's subjective world. Individual consciousness therefore appears as a multidimensional phenomenon comprising—alongside the qualities of thinking, will, emotious, etc. common to all people—elements of social consciousness in the form of dats convictions, social ideals, moral norms, religious beliefs, world outlook ideas, etc. Man's consciousness, unlike the animal's psyche, cannot therefore be corrective or the social problem of the social consciousness, unlike the animal's psyche, cannot therefore be corrective or the social consciousness of multi-main structure. It is also essential to define the peculiarities of the consciousnes of man as a member of a certain society and class. For instance, the consciousness of the bourgeoiste and the professitat differs in their interests, world outlook, ideological convictions, values and political views rather than in their knowledge, logic of thinking, or perceptions.

#### 9. The Unconscious Element in Man's Psyche

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The above clarification of the differences between individual and social consciousness makes it possible to delimit the concepts 'consciousness' and 'psyches'. Not all the human psyche is conscious. It also includes phenomena that do not pass through man's intellect and will, i.e., of which he is not aware. The sub-conscious, or unconscious sphere of man's psyche is comprised of his feelings and aspirations, of psychological motives, automatic habits and skills, and intuition, dreams and impulsive acts. None of these are controlled by through at any given moment. These mental phenomena are important in man's the for they free his consciousness of constant strain when there is no need for it. However, their significance in man's spiritual life should not be overestimated, at is done, for instance, by irrationalists and Freu.

dians The former belittle or deny the role of the intellect in cognising the world, treating cognition as a mystic illimination or unconscious institution As far back as the second entity B. C. Patanjali, the founder of the Yoga philosophy, viewed the unconscious as the highest level of knowledge. He defined the baits purpose of his philosophy as 'limiting the activity of the mind.' The Yogi's highest, tublime and direct state, according to Patanjali, was that of containment when the mind did not concentrate on an object but was immersed in its own nature and became unconscious. The irradionalist stand is adopted by many philosophers today, in particular by existentialists, Netzschean, etc.

The Freudian theory and method of psycho-analysis is a very

popular bourgeois doctrine on the unconscious today. The Austrian psychiatrist Sigmund Freud (1856-1939) is known for his work on unconscious psychic phenomena. He proposed a fairly effective method of treating mental illness by helping the patient bring out and comprehend experiences that he was not originally aware of. At the same time he unjustifiably interpreted the unconscious as the determining factor in all man's vital activity He considered the primary determinant of man's actions and behaviour to be their inborn instincts and appetites (above all sexual), rather than their thought, intellect and social feelings. He also believed that instinct determines not only the individual's character and behaviour, but also such social phenomena as culture, art, science, etc. The Freudian doctrine is on the whole erroneous, its view of the human mind suffers from a onesided biological approach. Freud disregarded the determining influence exerted on the individual by social factors, and presented the unconscious as the independent basis of the mind Unconscious phenomena, however, function as components of a single human mind born of man's necessary existence in a social environment. This mind is therefore basically tantamount to the individual's realisation of his relation to society and to himself (self-consciousness). Man is first and foremost a conscious being It is intellect and will rather than concealed animal instincts that regulate his acts in society, in line with his world outlook and the views he has formed about spiritual values, moral standards, the meaning of life and political ideals. These views take

shape during man's life in society and are determined by specific social conditions.

The Freudian interpretation that the mind is basically unconscious rules out a correct assessment of the role of ideas in society. It is just as untenable as the vulgar materialist view of consciousness.

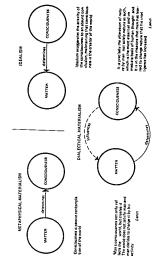
### 10. The Creative Force of Consciousness

Consciousness acts as the reflection of the objective world. This fact is the starting point of the materialist concept of consciousness as opposed to idealism. The latter mystifies ideal phenomena considering them as supernatural entities independent of the human brain. In actual fact, however, there is no such thing as absolute independence of consciousness. For instance, changes in social being considerably affect man's views and psychology. The social being of the Indian countryside, for example, has undergone certain changes brought about by the recent introduction of new farm technology and high-yield varieties of wheat and rice The 'green revolution' has had a substantial economic effect in boosting crop yields. At the same time it has exacerbated the uneven development of separate regions and has intensified social differentiation in the countryside. The new technology and modernisation of farming have required the restructuring of the existing irrigation system: small-scale irrigation networks are growing rapidly and fertilisers and machinery are being used more widely. Today some 200,000 tractors work India's fields. Yet the new technology can only be used by landlords and rich farmers. The 'green revolution' is therefore causing further impoverishment and is ruining the peasants, depriving them of their land, and increasing agrarian overnopulation: it aggravates the problem of employment, while increasing the demand for hired labour. Moreover, the Indian countryside is seeing the accelerated development of commodity-money relations. All this has found reflection in people's consciousness. The 'green revolution' has changed the social consciousness of all strata of the rural population, The destruction of the traditional farming system, formed over the centuries, and the need for new technology raise the vital problem of the development prospects of agriculture and the destinies of the peasantry. The ongoing social change is beginning to convince the rural proletariat and perantry that the bourgeois idea of the 'effectiveness' of capitalis development is false. And the rural strata are starting to realist that their basic interests are incompatible with a capitalist personctive.

Consciousness is thus the reflection of social being and is secondary to and derivative from it. At the same time, it would be incorrect to draw a sharp distinction between process of reflection and the creative activity of the consciousness which is absolutionably the idealists. Activity or activeness considerates which while correlating their behaviour to reflection conding well while correlating their behaviour one reflection assume fundamental formation. The condition is also that the condition of the condi

How does the activity of the human consciousness mailer itself? At the level of sense perception it can be seen in the set set to the set seen in the seen

stors and reagons mager. The creative activity of the consciousness is considerably amplified nowadays by the fact that we can model several function of human thought (logical operation, memory, the identification of images, etc.) using cylernetic devices—computer. That there have created the conductors for a further development of man's creative abilities, for they are increasingly freting from the need to engage in purely routure, metahasical mental



operations, such as retrieving and analysing information arms be to logico-mathematical processing. The very creation of whinking machiner's shows how great the creative power of eleman interest in the term of the material law of the material to derine on the law of the material describes the material (see historical) character of consciousness, since it makely sometimes to transfer the material of the material contribution of the material solution to transfer the material contribution of the material solution to th

This activity can be seen especially clearly in the mental control man has over his practical activity. Consciousness, arising from the material interaction between people and the surrounding natural and social world, at the same time determines the aims and methods of man's practical activity. This concerns both individual and, especially, social consciousness. Social being social consciousness as its reflection—practical social action—such is the most general scheme for the interrelation between reality and the social subject (the individual, social group, class, etc.). It is at the level of consciousness that the functioning social relations are reflected, the information obtained is correlated with the requirements and interests of a given social group, and the goals of man's activity are formulated. Goal-positing enables one to establish specific relations between knowledge and reality. At this stage, man's consciousness performs mental operations which are in the form of evaluative and normative judgements, criticism, theoretical constructs, views on the world, reasoning, etc. People's awareness of their interests in the course of this complex mental process of goal-positing is also a transition from thought

to practical act.

The goal acts as an impetus, a direct motive for a consciour social act. For the action of the masses, the goal is a special kind of idea, i.e., a thought performing an important synthesising

function in the individual's spiritual life. Idea stands out from other forms of knowledge and concepts because it expresses class interests and aims in concentrated form. Within idea is contained a striving for practical realisation, for its materialisation and self-assertion. Idea incorporates knowledge of the ways and means to objectify itself and is the plan of action for the subject.

#### 11. The Struggle of Ideas

All this explains why an antagonistic class society witnesses an acute struggle of ideas. Ideological struggle is, in the final analysis, the struggle of classes whose interests these ideas express. Any social action presupposes the existence of an idea not only as its theoretical justification, but also as an indispensable condition for its accomplishment, 'Material force must be overthrown by material force,' wrote Karl Marx, 'but theory also becomes a material force as soon as it has gripped the masses." An idea becomes a direct motive force of practical action only when it is converted into an element of mass consciousness, i.e., when it is correlated to social psychology (i.e., people's interests and requirements, their aspirations and sentiments, etc.). When they take possession of the masses, ideas become a material force as they render organisation and purpose to their practical action, and direct people's will to the solution of mature social tasks

It is thus clear from the above why it is so important to educate the revolutionary consciounces of the working masses and to fight against all reactionary ideas. In capitalist countries, a considerable portion of the working class is till influenced by bourgeois ideology and has a reformist rather than revolutionary mentality. This is explained among other things by the intensive manipulation of the mass consciousness by bourgeois propagandist media. Another adverse factor is the propagands of the preudo-revolutionary views of the neo-anarchist and ultraleft, extremit elements. Ideological struggle becomes even more important because it is being waged in the prevailing conditions of peaceful coefficient with two proposity social asterns.

K. Marx, 'Contribution to the Critique of Hegel's Philosophy of Law, Introduction', In: Karl Marx and Frederick Engels, Collected Works, Vol. 3, Moscow, 1975, p. 182.

The advocates of capitalism allege that the ideological commiment of the Communists has now become an anachronium and only prevents the solution of acute problems. They call for the 'de-ideologisation' of modern social consciousness and for the etabilisment of peace in the field of ideology (though some the

mand a more inflexible ideological line). The Communists assert, however, that peaceful coexistence by no means rules out class struggle either inside capitalist society or between capitalism and socialism. Neither neutralism nor compromise is admissible in the ideological field, since communist and bourgeois ideas are antagonistic to each other .. The only choice is either bourgeois or socialist ideology, wrote Lenin in the early 1900s. There is no middle course (for mankind has not created a "third" ideology, and, moreover, in a society torn by class antagonisms there can never be a non-class or an above-class ideology). Hence, to belittle the socialist ideology in any way, to turn aside from it in the slightest degree means to strengthen bourgeois ideology." Such a clear-cut formulation of this question stems of necessity from the scientific conception of the role of ideas in society in general and in social transformations in particular,

The reactionary clause factors are proposed of loning their domination. They try to hamper the objective, law-governed process of national liberation and cold conscipution taking recourse to various ideological more content to various ideological more content to succeed if it openly speaks of its true aims it is compelled to create a petern of ideological myths to disguise its true intentions and half the violation of the peoples. Yet

The very course of world history refutes the apologetic constructions of capitalist ideologists. Yet the myths will not dissipate of themselves. A stubborn and consistent struggle is required to eradicate them. The ousting of reactionary ideas is constructed to the construction of the

sential for the consciousness of the working classes to become an active creative force in the transformation of reality.

3 International Meeting of Communist and Workers' Parises, Moscos 1969, Prague, 1969, p 163.

V. I Lenin, 'What Is to Be Done', Gollected Works, Vol. 5, Moscow, 1975, p. 381.

#### Chapter V DIALECTICS: THE UNIVERSAL CONNECTION AND DEVELOPMENT

There is more to scientific philosophy than just the materialistic solution to the fundamental question of philosophy. What we have said about the unity of the world and about consciousness as a product of the historical self-development of matter makes it clear how important is the dialectical conception of reality. Dialectics holds a special place in the scientific world virw

#### 1. The 'Life Blood' of Marxism

As Lenin put it, dialectics is 'what is decisive in Marxism',1 the 'life blood' of Marxism,' since it 'has fused the theory and practice of the class struggle into one inseparable whole'. In our day and age what Marx had to say about dialectics is especially relevant: 'In its rational form it is a scandal and abomination to bourgeoisdom and its doctrinaire professors, because it includes in its comprehension an affirmative recognition of the existing state of things, at the same time also, the recognation of the negation of that state, of its inevitable breaking un: because it regards every historically developed social form

Letters to Dr. Kugelmann', Collected Works, Vol. 12, Moscow, 1972, pp. 107-108.

V. I. Lenin, 'Our Revolution', Collected Works, Vol. 33, Moscow, 1966, p. 476.

V. I. Lenin, 'Certain Features of the Historical Development of Marxism', Collected Works, Vol. 17, Moscow, 1963, p. 39 V. I. Lenin, 'Preface to the Russian Translation of Karl Mars's

as in fluid movement, and therefore takes into account its transient nature not less than its momentary existence; because it lets nothing impose upon it, and is in its essence critical and revolutionary.' It is no chance, therefore, that the theory of dialectics has now become an object of acute ideological struggle. Bourgeois scholars indulge in various fabilications of materialist dialectics, more often than not denying any objective significance of it and brushing it aside as an empty formula. In other cases they limit dialectics solely to the sphere of subjective thinking, rejecting the action of the laws of dialectics in nature. Moreover, they distort, as a rule, the basic postulates of materialist dialectics, its laws and categories, opposing the 'negative', 'phenomenological', 'tragic' and other interpretation' of dialectics to its Marxist conception. The untenability and absurdity of such views becomes evident when we consider the scientific content of dialectics

What is dialectics? To answer this question we must first d all distinguish the objective dialectics of nature and society from the doctrine or theory of dialectics. Engels wrote: Dialectics, so-called objective dialectics, prevails throughout nature, and so-called subjective dialectics, dialectical thought, is only the reflection of the motion through opposites which assets itself everywhere in nature, and which by the continual conflict of the opposites and their final passage into one another, or into higher forms, determines the life of nature." Thus objective dialectics is understood as the unity of infinitely varied matter in its self-motion, while subjective dialectics belone to the sphere of reflection and thought. Thought may be spontineously dialectical: the mutability of things, the contradictor ness of the phenomena of reality, etc. is also fixed by empirical consciouness in the everyday life of the people. This is expresed, for example, in folk sayings and observations. Thus wise propular sayings express the unity of opposites, e.g., Death border upon our birth and our cradle stands in the grave, 'in health there is sickness, in success, failure, and in youth, senility. When, however, the dialectics of being is conceived of theoretically, we must deal with philosophical doctrines of disfection

<sup>1</sup> Karl Mars, Copital, Vol. 1, p. 29,

<sup>\*</sup> Frederick Engris, Dislocing of Nature, p. 211

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Chapter VI CONTRADICTIONS AS THE SOURCE OF DEVELOPMENT

Denying the primacy of matter, idealists have at all times allo denied its capacity to develop itself. They set the cause and source of the movement of all that exists in the creative sonity of the non-matterial entity, such as the spirit, soul, wil, the omnopotent and all-creative Brahman.

This One is (the inferior) Brahman, this is Indra, this is Prayapati, this is all these gods; and this is these five element, viz earth, air, space, water, fire; and this is all these (big creatures), together with the small ones, that are the procreators of others and referable in pairs—to wit those that are born of eggs, of wombs, of moisture, of the earth, viz. horsel, cattle, men, elephants, and all the creatures that there which move or fly and those which do not move. All these have Consciousness as the giver of their reality; all these are impelled by Consciousness The universe has Consciousness as its est. and Consciousness is its end Consciousness is Brahman The world is led (produced) by knowledge (the Self). Knowledge its cause Knowledge is Brahman." The Greek thinker Anstole (384-322 B.C.) considered matter to be passive and amorphous and held that the origin of activity was the non-material form The ultimate source of all movement was in his view 'the form of all forms', God, the motionless Prime Mover'. For the ideal ist Hegel, the source of Nature was his Absolute Idea The modern religious philosophy of Neothomism explains changes

Fight Upanishads, Vol. II (With the Commentary of Sankarate Ivaita Ashrama, 1958, p. 71.

in material things by the action of a goal-positing spiritual entity. Pre-Marxian materialists, too, were unable to give a correct explanation for the causes of qualitative changes in the world, metaphysically interpreting matter, as we have seen, as immutable and motionless, and explaining the motion of separate bodies by the action of evertual force.

## 1. The Nucleus of Dialectics

According to dialectical materialism, the development of the objective world can be explained without recourse to the activity of forces external to matter. The source of the development of matter lies in matter itself, in its internal contradictoriness as a unity of phenomena infinitely varied in their quality, a unity of change and stability, continuity and discontinuity. The self-contradictoriness of matter in motion is manifested in the contradictoriness of all phenomena of nature and society and also in thought. Contradictions are to be found everywhere; they are universal in character. This is borne out by scientific data and by people's life experience itself. In inorganic nature contradictions are manifest in the relations between particles and antiparticles, between substance and field, attraction and repulsion, between positive and negative electric charges, waves and particles (corpuscles), action and counteraction, the association and dissociation of atoms, oxidising and restoration processes, absorption and desorption, endogenous and exogenous processes, etc. The sphere of life has its own contradictions, such as assimilation and dissimilation, life and death, heredity and mutability, the organism and the environment, the individual and the species, intraspecies and interspecies contradictions, etc. In society contradictions are expressed in the relations between the forces and the relations of province tion, the exploiters and the exploited, socialism and capitalism. economics and politics, the forces of war and peace, of progress and reaction, between the developing rounfries and neocolonialism, etc. In man as a personality contradictions arise between his intellect and feelings, between the social experience he has assimilated through learning and his personal life experience, between his appetites and aspirations on the one hand and

the conditions for their realisation on the other, between his personal and social consciousness, etc.

Thu universal contradictionies of all that exists is also the most profound motivating force behind development, and the source of all changes in objective reality. The doctrine of care tradictions is therefore the essence of dialectics. In brief, dialectics can be defined as the doctrine of the unity of oppositive! Jenio visit This architecture that the research of dialectics.

sites,' Lenin said. 'This embodies the essence of dialectics...' How, then, does materialist dialectics treat the problem of contradiction? First of all, it assumes the objective nature of contradictions For metaphysicists there can be no contradictions in things themselves. According to them contradictions arise only in man's thought as a result of the violation of the laws of logic. Things, they believe, are an identity that rules out any difference. Yet such abstract and absolute identity caonot exist. Of course, any material object has some identity, ie, it is marked by inner unity, stability, and relative unchangeability. The one-thousand-year-old fig-tree mentioned above may from this angle be viewed as an identity, for it has remained one and the same tree for many centuries. Yet dialectics finds differences in identity. For instance, every object has different elements in its structure, the object itself is changing, and there are differences between it and other objects. A fig-tree, for example, has many dissimilar properties at the age of five, fifty, five hundred and one thousand years, though retaining its specific quality as a given species of tree. Or take a natural phenomenon such as visible light. As perceived by the human eye this is white light, representing a flow of electromagnetic radiation. If it passes through a prism it decomposes into a spectrum of various colours. Thus in this case, too, there are differences in identity, differences that are determined by the length of the electromagnetic waves composing the visible light.

Or take another example. The national liberation movement, while retaining its general anti-imperialist orientation, contains a difference in itself: one group of developing countries remains

V I. Lenin, 'Compectus of Hegel's Book The Science of Logic', Collected Works, Vol. 38, p. 223

in the orbit of the world capitalist economy, while another takes the path of socialist orientation.

'Difference' is a relation of non-coincidence, the heterogeneity and mutability of the elements of the thing itself, as well as of its and other things' properties. Each real thing is object-tively marked by both identity and difference. Metaphysicists do not see the inextricable connection between identity and difference reasoning according to the 'either yes or no' formula. Yet this mode of thinking is far from always correct To take an example, is the national bourgeoise of the developing countries progressive or reactionary? We cannot answer this question unambiguously. After all, this bourgeoisie is not connected with imperialist circles and is therefore objectively interested in accomplishing the main tasks of the anti-imperalist, anti-feudal revolution, in developing the national forces of production and abolishing the domination of foreign monopolics. It is thus progressive in character, retaining an ability to take part in the revolutionary struggle against imperialism and feudalism At the same time, the national bourgeoisie, a class existing on the basis of private property and exploitation, is also marked by something common (i.e. identical) to any exploiting class. Its progressive nature is therefore relative, since it is unstable in the struggle against imperialism and feudalism and is prone to compromise with them It tries to impose a capitalist line on the developing nations, a line that brings new hardships to the workers in town and country. This demands that the working class use a correct tactic of unity and struggle in relation to the national bourgeoisie.

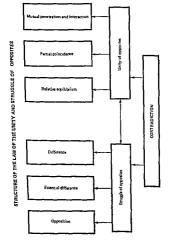
For example, the Communita of India support the generally recognised progressive aspects of India's national policy, such as the struggle for economic independence, the strengthening of the public sector, radical socio-economic reforms, secularism, an anti-imperialist non-alignment policy, frendwidthy and cooperation with the socialist countries and the assertion that the building of necilieum is the goal of society's development. At the same time, the Communist Party of India opposes aspects of the bourgoots policy which are reactionary and work against the interests of the people, such as the growing exploitation of the working people, the worsening of their livings conditions, the

integral, stable social system whose elements interact with or another with different degrees of harmory. The 'dynamics of free tonal unity' views class struggle as a 'dynluction's, i.e., as 'with ton of the 'normal' conditions of functioning of bourgois seem in actual fact, however, the working people's struggle again exploitation is an objective law in an antagenistic sciery, Borgeous theoreticans take up the philosophical concept of equaltions to justify and perpetuates the capitalist system.

It would be wrong ever to consider stability and balance, in cluding equilibrium of opposites, as absolute. Balance or equilibrium rum is always transitory. Opposites in a phenomenon cannot constantly and absolutely balance each other since they mutually negate, collide with, struggle against and exclude each other In their struggle periods of relative equilibrium intersperse with those where one dominates the other. Thus, the metabolism of an individually developing organism is first marked by a preponderance of assimilation over dissimilation. The organism grows, develops and becomes stronger. This is followed by a relatively long period when assimilation and distimilation are in equilibrium or balance, when the organism reaches maturity, the peak of its forces, and begets progeny. Yet as time gos by it begins to get older. In that period disintegration and dis simulation begin to prevail over assimilation, and finally cause the organism to die Apart from temporary and transient periods of equilibrium

capart trom temporary and transient periods of equination and balance the unity of opposites also evits in the form of their interfusion, as obtains, for instance, in the elementary for intellects forming an atom, in the interaction of the points and negative poles of a magnet, etc. In these cases the absolute arture of the struggle of opposites is expressed in the mutual evolution of opposites, in the qualitative convenions of material formations.

The struggle of opposites is absolute in the sense that it leads to the evolution of a contradiction and ultimately to its resistance. Outstanditions, like everything else in the world, are shipler to evolution. During the universal interaction of third some contradictions arise, others disappear. Development as whole is a process whereby contradictions arise, tevelve and are resolved. The latter happens when the struggle between the op-



posites attains maximum tension and they can no longer co tinue within the framework of their existing unity Dependen on the specifics of the phenomenon and the character of the struggle of these opposites, the forms of resolution may differ the old opposites may disappear and a new contradiction are with an entirely new unity and struggle of opposites, or one of the opposites may win. In all cases the resolution of a cond? diction is in some respects a process of conversion of the opposite into one another. Elementary particles having opposite pro perties convert into one another. Inanimate matter become animate in an organism in the process of its metabolism with surrounding nature Life itself turns into its opposite, death, de latter serving as the beginning of new life; in primitive organisms reproduction and death coincide. Opposites also convert into one another in social processes. The law of private property de mands, for example, that goods be bought and sold according to their value, that an equivalent exchange of values takes plan The capitalist and worker appear as owners, one of the mean of production, the other of his labour power. At first glance is exchange seems to be equivalent; the capitalist appropriates the labour of the worker, the worker receives wages, the value of his labour power, from the capitalist. In actual fact, howers, this is not an equivalent exchange. The worker only gets a part of the value of what he has produced, the rest goes to the capitalist, as surplus value or profit, at no cost to him. Hence s law of appropriation which calls for an equivalent exchange of value, under capitalism turns into a law of appropriation base on the infringement of equal exchange, i.e., it passes into in opposite. Extremes also converge in other cases, e.g., ultra-kli radicalism merges with rabid reaction, free competition engen ders monopoly when capitalism passes into its highest stage, and perialum, etc.

#### 3. Internal and External Contradictions

Existing contradictions are multiform, not all of them plat an identical role in development. Any contradiction is interal if applied to the material world as a whole. In this sense the world appears as matter moving by virtue of its inner contradictions, In separate bodies, systems, phenomena and processes, however, one must distinguish between internal and external contradictions. Internal contradictions represent the unity of opposites in the very essence of objects and phenomena By contrast, external contradictions are those which arise between simultaneously existing and interconnected phenomena, they express the relation of oppositeness between different things, each possessing its own internal contradictions

The internal contraductions in a phenomenon are the determining cause, the immediate source of its development. External contradictions in a phenomenon are the determining cause, the immediate source of its development. External contradiction, on the other hand, influence internal processes as their conditions, affecting the character, rate and direction of engoing change. The radioactive decay of themcal elements, for example, is determined by internal factors, viz. by the interaction of elementary particle having opposite properties and forming the structure of the atom At the same time this process also depends to some extant on external conditions. For instance, the rate of radioactive decay differs according to the chemistance, the rate of radioactive decay differs according to the chemistance, the rate of radioactive decay differs according to the chemistance, and the contradiction of the chemistry of the contradiction of the chemistry of the contradiction of the chemistry of the chemistr

Especially important is a correct understanding of the correlation of internal and external contradictions in the development of society. Social relations, based on a definite mode of production of material wealth, run through people's live. Contradictions between the productive forces and production relations, and contradictions between classes in antagonatic formations are the driving force of social progress. The geographic environment, the climate, the annual and vegetable world and other natural factors do not however lie behind radical social change, though they have an important influence on life in society. It would be altogether wrong to exaggerate the role of external influences, as is done so often in various unacentific geopolitical, racis, Mathusian and other theories. What is if, for instance, that determines the role of a particular state in world history. level of its social development and culture, and the rat of social advance? Its regional location, the size of its territor it population, and the racial features of its people? No, there determined by other decisive factors, i.e., the mode of production, the level of productive forces, and the nature and early of mner social contradictions. This also pertains to the oral question of the victory of socialist revolution in specific countries. Communists recognise the decisive role of internal or tradictors in social development and reject the concept of 'empirication's revolution'. Revolution is not brought from without, but is logical result and the highest form of the class struggle, and resolution of internal social antagonism. Revolution is brough about by the working people of a given country under the scribip of the working class with the Communist Party at a head.

The existing boundary between internal and external contridictions is not at the same time absolute. The same contraditions may assume different qualities with regard to different tems Moreover, the leading role of internal contradictions det not mean that external factors are necessarily to be ignored. To day, for example, mankind is coming increasingly under the impact of ecological contradictions. Specific treatment must also be given to the prerequisites and prospects of the revolutionary movement and of the victory of a socialist revolution in particular capitalist countries. In our epoch the capitalist system gripped by a severe crisis and the development of the world to being all the more decisively influenced by socialist forces these conditions the success of the anti-imperialist struggle does not only depend on the internal development of a particular country, but also on the development of the world revolutionary process as a whole.

### 4. Major and Minor, Basic and Non-basic Contradictions

In complex natural and social systems there are many contradictory relations between elements, aspects and tendencies. One must therefore distinguish major and minor contradictions in specific conditions. It may so happen that not only an internal but even an external contradiction may become a major one at a difinite stage of development. For instance, during the struccie for national liberation, the contradiction between the earlier oppressed nation as a whole and impenatism comes to the fore and becomes the major contradiction. The existing internal contradictions (between the national bourgeoiste and the working class, between the bourgeoisie and feudal elements, between the peasant masses and the bourgeoisie, etc.) do not disappear but unfold in the context of the people's common struggle against colonialism and foreign monopolies. Once a country has attained national independence, the function of the major contradiction is assumed by other contradictions, e.g., those between an advanced social system and a backward economy, contradictions between classes, between progressive and reactionary elements of society, etc.

the function of the major contradiction. Yet among the conredictions of a particular filing, system or phenomenon there is also one that exerts a determining inherence on 16 development at all stages. This is called the basic contradiction. It ultimately determines the unfolding of all the other contradictions in a system, being initial, primary in relation to them The basic contradiction in amante nature, for example, consist in the 'struggle' between the processes of assimilation and dissimilation. This contradiction manifests itself in a specific form in any organism in the genetically determined type of metabolism that is typical to it, and in its concomitant internal and external organisation and functioning. It directly or indirectly determines all the other contradictory processes in an organism (its adaptation to the environment, its relation to the individuals of its own and other poecies, stc.).

We can see, then, that different contradictions may perform

The basic contradiction in the development of society is that between the productive forces and production relations. In capitalist society this contradiction is manifest between the social character of production and the private capitalist mode of appropriation. It is this contradiction that underlies the antagonium between the boargeoide and the proletariat, the contradictions between the organisation of production at an enterprise and the anarchy of social production as a whole, the cortain

During his visit to India in December 1990, L. I. Berker pointed to her prominent role in history and commended the pointed to her prominent role in history and commended the emphasis on peace and stability, and singled this out as the rest why the Soviet Union attaches prime importance to its relativistic properties of the Properties

The problem of the basic contradiction of modern times has today acquired particular importance. In relation to human so ciety as a whole it is the contradiction between two social as tems—socialism and capitalism. The struggle of these two of posing social systems comprises the main theme of our epoch the transition of peoples from capitalism to socialism. It is the basic contradiction, for relations between the two world system of socialism and capitalism are decisive for the development of all the other social contradictions of today (those between its perialism and the developing countries, between various insperialism rialist states, between democracy and reaction, between the form of war and peace, etc.) This basic contradiction of the modern and peace, etc.) dern epoch can only unfold and be resolved in the interest of progressive mankind through the peaceful coexistence of states with different social systems. An important contribution to the preservation of peace in the world is made by India which pursues a consistent anti-imperialist non-alignment policy-

# 5. Types of Social Contradiction

The classification of contradictions into basic and non-basic, major and minor, and internal and external, reflects their estimates both in nature and society. Social contradictions describ

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a special mention. They always express certain relations among people, and refer to specific social subjects (toois) groups, classes, etc.), which become directly or indirectly melasted in other control of the control of the control of the relation between people and specific social objects, such as property, political power, national independence, ideology, culture, religion, freedom, etc. People may be interested in preserving and developing some contradictions and strive to block or remove others. What contradictions can be sintered out in tocal life?

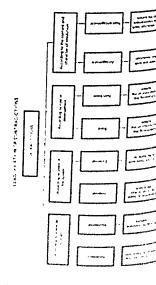
First of all, one can distinguish two types of contradiction by their social quality (the character of social relations), these are antagonistic and non-antagonistic. Antagonism grows from the social conditions of an industrial's life and is ultimately based on the different relations between people and the means of production of material wealth. Antagonism is a relation of incompatibility between the fundamental interests of social subjects (above all the classes of the exploiters and exploited), engendered by private property and social inequality Antagonistic contradictions include those between slaves and slave-owners, feudal land-owners and serfs, the hourgeoisie and the proletariat, unperialism and socialism, colonialism and the national liberation movement. By contrast non-antagonistic contradictions reflect fundamentally different relations among people. These are contradictions among classes and social groups whose interests basically coincide but diverge in relation to separate social objects Such, for example, are the non-antagonistic contradictions bet-

ween the working class and the working peasantry. Contradictions in society may also differ according to their subject and vehicle. They can be broken down in this respect into class, national, general human, group (e.g., caste) contradictions, and contradictions between social systems, states, posder-tions, and contradictions between social systems, states, pos-

In the social sphere there are economic, political and ideological contradictions, contradictions in mass consciousness, sei-

ence, culture, everyday life, etc.

In their form of development and resolution social contradictions may be divided into social antagonisms and social distinctions. The former are the relations of conflict among people and



classes which are expressed in a direct clash of their fundamental interests. Conflict is struggle, fused with the more or less aware desire of the people, to overcome the objective opposition of their interests. Social antagonism expresses the utmost aggravation of contradictions, the people's struggle in society as a whole. Social distinction is a qualitatively different form of contradiction. It is the relation of discrepancy in people's interests with regard to separate social objects, which is determined by their social being. If social opposition is largely the state of antagonistic contradiction, then social distinction is the means of

nistic contradictions. Social distinction is settled through various compromises (in class antagonistic societies) or through the planned adjustment of people's non-coincident interests (in socialist society), rather than through struggle. Thus contradictions are manifest in widely diverse forms both in nature and society, their unfolding propelling the development of the objective world. The struggle of opposites underlies

existence of both antagonistic and predominantly non-antago-

change in all things, the specific mechanism of this change being revealed in the law of the transition of quantity into quality and vice versa.

# Chapter VII

#### THE LAW OF THE TRANSITION OF QUANTITY INTO QUALITY AND VICE VERSA

The essence of this law consists in the fact that 'merely quatitative differences beyond a certain point pass into quificiar changes' I tis necessary therefore to clarify first of all the content of the concepts 'quality' and 'quantity'.

## 1. The Concepts of Quality and Quantity

There have been different opinions about these concepts a the history of philosophy For example, they have not always been clearly differentiated. The old Indian philosophical man of Varshesika dwelt among other things on the concept of quality (guna) According to the founder of this system, Kanada a the phenomena of the world resulted from various combinators of qualitatively heterogeneous atoms (material substances): ments of earth, water, air, light, and ether. Each of thee had its specific quality earth—smell, water—taste, air-touch, lightwarmth, and ether-sound Quality, according to the Vailer ka, was that which did not exist of itself, but only in suletane Quality was manifested only together with atoms and reserve to exist together with the destruction and ruin of elements. There were many different qualities, but, according to Kanada, then existed twenty-four basic qualities of the atom They included spart from these indicated above definiteness, pleasure, suffer ing, intensilication, viscosity, number, magnitude and visit

<sup>\*</sup> Karl Mary Capital, Vol. 1 p. 292

The Vaishesika school did not identify quantity as an independent category, but considered it as a special type of quality. The category of quality itself, as we can see, was still closely connected with the direct sense perception of concrete, corporeal things.

While mechanistic views on the world were predominant qualitative differences between phenomena were ignored, and reality was largely interpreted in quantitative terms. Some philosophers, for example, did not make essential distinctions between living organisms and inorganic bodies Among them was the French materialist La Mettrie (1709-1751) who wrote the book L'Hommesmachine

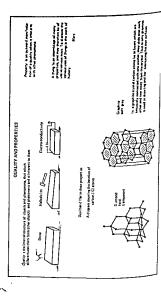
Among the opponents of materialism, subjective idealists did not recognise any qualities outside man's perception, while objective idealists, such as Hegel, interpreted quality and quantity merely as forms of modification of the Absolute Idea In actual fact, however, the categories of quality and quantity express the multiformity of matter in motion, spatial-temporal

connections and relations between objects and phenomena, their distinctions and factors in common. Quality is a stable and integral totality of the essential features of a thing taken in a certain definite relation to other objects of reality. We must clarify here that by an object (thing) we understand all that to which our thought is directed (bodies, phenomena, processes, etc.)
Things exist objectively, of themselves, independent of whether or

not we know them Also objective are qualities inherent in things. These are manifested in the relations of things with one another A thing possesses different qualities with regard to different things. It is therefore multi-qualitative.

Property is the mode in which the quality of an object is manifested in relation to other things. It is any feature that inheres in a thing. Quality is something that cannot be separated from the very existence of a thing, while properties a thing may lose or acquire without ceasing to exist as a specific material formation. At the same time, the difference between quality and property is relative. What appears as the property of an object in one relation may appear as its quality in another.

Let us take diamond as an example. It is harder than all known substances. This is its quality when it is used as abrasive material.



This quality can be manifested, say, in polishing glass A diamond could not be used as an instrument if it were not hard. However, in this specific relation (the processing of other substances) the properties of diamond that are in general inessential and may be different are its colour (in nature diamond occurs as separate crystals that are either colourless or tinged with admixtures) and its origin (diamonds may be obtained synthetically from carbon compounds at high temperatures and pressures), form, etc. If, however, diamond is considered as a precious stone what matters is not so much its property of hardness as its ability to undergo faceting, have different colours, etc. When, finally, diamond is considered from the angle of its chemical structure then its hardness, colour, ability to be faceted and other properties prove inessential, for in this case the main thing is that diamond is an allotrophic modification of carbon. In the chemical respect, therefore, diamond, graphite and coal all represent the same quality. manifested in the relevant properties of carbon in the specific chemical reaction.

The concept of quality thus serves to express:

a) integral properties of an object, b) its stability, c) its relative unmutability, d) its specific differences from other objects, e) its definiteness which is inseparable from its existence.

What is quantity? This concept should be considered in its connection with the category of quality. First of all, unlike the integral characteristic of a thing as given by the concept of quality the category of quantity expresses the definiteness of an object from the angle of its individual properties or features. In this way the degree of development of these properties is amenable to measurement and comparison with their manifestation in other objects. Natural bodies may, for example, possess a definite velocity, temperature, weight, volume, etc. The category of quantity records changes in the object's separate properties that are common to those of other things. Quality is inseparably bound un with the very existence of a thing, while quantity is at first glance something extraneous to its existence. Copper retains a definite aggregate state of solidity whether it is heated to a temperature of 100° or 300° Centigrade. The table at which you are reading may be large or small but it does not cease to be a table because of this

The most important characteristics of quantity are number and magnitude The former is historically bound up with the operation of counting, the latter with the procedure of measuring bodies by a definite yardstick The concepts of number and magnitude have developed in step with the development of mathematics At present mathematicians distinguish natural, material and complex numbers, quaternions, etc. The concept of magnitude includes both ordinary (scalar) magnitudes and vectors, tensors, etc. With some reservations quantity may be taken to mean an object's definiteness that can be expressed by number and magnitude How ever, it would be wrong to completely identify quantity with the mathematical concepts. It is far from possible to express all quantitative differences in terms of number and magnitude; this obvious, in particular, from the limited applicability of mathenatical methods to the analysis of many social phenomena and processes What cannot be expressed in formulae, for example, is the level of revolutionary sentiment and consciousness of the masses the degree to which the class struggle is acute in a society, the degree to which cultural values have been assimilated, the aesthetic impact of works of art, difference of religious sentiment, etc

#### 2. The Transition of Quantitative Changes into Qualitative Distinctions

Quantity and quality, as follows from the above, are opposite VQ there is also a relation of dialectical unity between them It is only at first glance that quantity seems to be uncountried with the nature of an object. In actual fact, however, each time the control of the con

copper is heated to 1,083°C its aggregate state changes from solid to liquid. These and other examples convince us of the existence of a link between quantity and quality. Their unity is expressed in the concept of measure.

Measure points to the lower and higher bounds of a possible quantitative change with a given quality, indicating the boundarie is of change in the quantitative definitieness of a thing, in which it remains itself. Everything has its measure, i.e., a definite correlation between quantity and quality. Within measure quantitive changes are not attended by changes in the quality of the object. When this measure is upset, however, and its bounds overstepped, quantitative changes entail the qualitative transformation of a phenomenon. The new phenomenon in its turn has its own measure.

as specific unity of qualitative and quantitative characteristics. It is a specific unity of qualitative and quantitative characteristics is specific unity of the property of

... In nature, 'wrote Engels, 'm a manner exactly fixed for each individual case, qualitative changes can only occur by the quantitative addition or quantitative abstraction of matter or motion (to-called energy).' Specifically, the quality of an object is transformed through changes in the quantity of substance, energy or information, when substance and energy are redistributed in the objects themselves, when structural elements change in a thing and new elements takes, etc. When water to bested or cooled and its energy changes, eg, when it attains a certain temperature, its aggregate state changes is trust into steam at 100°C and into ice at OC. An example of qualitative changes as brought about 100°C and into ice at OC. An example of qualitative changes in the number of softense of the control of the objects of the control of the objects of the o

<sup>\*</sup> Frederick Engels, Dialectucs of Nature, p. 63.

entries in two and a helf days as the whole of prescribed Roma dalon 1913, and produces no exit as the whole with a quarter of a century ago. The prescribed economic field the words that mount is country attend from spaceras.

#### 3. The Leap and Its Forms

Chantitation charges usually excus tent ments, pradicted take from over a west beand. Overstatus spacker to the up hand, always mean a break in the continuity and gradul deviment in some respect as they expens a transfer in a new ments. a new journaments. Thus a qualitative charge in a thing show always to regularly as a kind of a leap in development, and whole present of development and motors appears as the miof community and discontinuity, gradualness and leafs. The cocript of a leap is very important in the dialectico-material and siew in the dialectical conception of development it is used a express that a) the qualitative change in anothing reals for preliminary quantitative changes that are independed for a new quality to emerge, by that these changes, preparatory to a key are based on contradictions appearing in the development of i thing, c) that a qualitative change does not mean a quantitative addition to or subtraction from what already exists, but a racing transformation of the existing thing resulting in the disappearant of the old and the appearance of a new phenomenon with its end measure of qualitative and quantitative properties.

The main thing is that the old becomes the new leap them can of a leap, and as a result of it. The forms of the leap control of the control o

popular masses is also a sharp leap in social development.

However, leaps may also occur in a different way Radical qualitative changes often take a relatively long time to occur and

include many lesser leaps. In this case one quality converts into another gradually. The boundary between the old and new measures is not so sharply expressed, but it does exist, as this process also incorporates a moment where there is a break in development. Such are, for example, leaps conditioning changes in the geographical environment, the formation of deserts, the swamping of lakes and ponds, the pollution of seas and oceans, the formation of peat, coal, oil, and other minerals. It took millions of years for a tremendous leap in the development

matter to occur, i.e., for man to emerge and the ansition to be made from the animal world to society. jualitative changes in the development of language also occur radually. Many modern languages in India, e.g. Hindi, have an-ient Sanscrit as their source, but they sharply differ both from ne another and from Sanscrit. The transformation of Sanscrit into ther languages in the course of historical development is a quali-tive change, a leap. But this leap took place gradually; this is ecause language is a means of communication among people and ach new generation must assimilate the language that is already sed by society. Ouslitative changes in the development of lanmage that take hundreds and thousands of years to emerge, are rought about by many changes in the vocabulary and grammar of the language caused by the development of the whole of social ife. With the emergence of a new quality the measures are changed as a result of many tiny discrete changes; this complirates the definition of the moment of the radical qualitative transformation.

The forms of qualitative changes depend on the features of the objects themselves and on the conditions in which they exist. A leap occurs differently, for example, when water evaporates from a river and when it is heated in a hermetic boiler. In the first case it is a gradual process, in the second a starp and explosive one. The radioactive decay of chemical elements in natural conditions also differs from similar processes in atomic reactors where nuclear matter is destroyed much quicker in an artificial way, emitting a tremendous amount of energy all at once,

#### 4. Revolution and I volution

Recultions in a special form of a kap typical distribution, and how our analyses are larger to the residence of the distribution, and not one that a statuted, shall be be a parallel of the traking care on treath as fine as purelies form it forces for many be excusted in different sizes of the transfer of the transfer of a filter of the statuted for the statuted of the statuted of the statuted of the statuted of the special statuted on the statuted of the special statuted of the statuted of the statuted of the special statuted of the statuted of

In relation to society the concept of 'evolution' express to gradual change that takes place in secrety with its base quantidefiniteness remaining intact. Thus capitalism evolved into monopoly stage -unperillam-from the pre-meropole stage of throughout its development capitalism has preserved the execution features of the bourgeon mode of production, such as the docuance of capitalist property, the contradiction between labour pa capital, unemployment, crises, etc., which distinguish it quality from all other socio-economic formations. The evertionary form of development is accompanied by companied by qualitative changes, but within the framework of one and to same social measure (the specific type of social relations). solar as the evolutionary period is marked by certain qualitative changes, this form also includes breaks in continuity and enfort leaps. At the same time, vis-à-vis revolution, evolution manifests itself in the form of quantitative changes of a good fundamental quality. Evolution and revolution are therefore interconnected: evolutionary development necessarily leads property leads to revolutionary, radical changes, while revolution completes the

Y. I. Lenin, 'The Importance of Gold Now and After the Overlete Victory of Socialism', Collected Works, Vol. 33, Moscow, 1900, p. 110

evolutionary period within a given social quality and is the begunning of a new type of evolution. This is true with regard to different kinds of revolution in the productive forces, the economy, science, culture, etc. A correct understanding of the correlation of evolution and revolutions to st special unportance in the practice of social revolutions (bourgeois-democratic, national liberation, socialist, etc.).

Any attempt to contrast these two necessary forms of develop-ment in society is untenable in theory and harmful in practice. The metaphysical conception of trite evolutionism, for example, is the philosophical basis for opportunism and reformism which negate leaps and revolutions in development. It is erroneous to assert that capitalism can grow into socialism in a purely evolutionary way. After all, the changes undergone by capitalism on the eve of a socialist revolution are but quantitative changes in relation to that revolution and the resultant socialist system, since capitalism, as a special formation, remains one and the same. The fundamental qualitative differences in the social relations of capitalism and the emergence of a new system are only possible in the course of a socialist revolution, as a result of the establishment of the dictatorship of the proletariat, the abolition of private property, the socialisation of the means of production and other socialist transformations While believing that socialist revolution is indispensable for a transition from capitalism to socialism the Communists also take account of the many specific forms in which it is accomplished (using the institution of bourgeois democracy and other peaceful means or an armed uprising).

Anarchim and leftix adventurism ignore the possibility of accomplishing socialist resolution by relatively peaceful method; they make an absolute of the methods of armed struggle and deny the role played by evolutionary development in the preparation of qualitative social transformations. Materialst dialectus considers such views to be as one-sided and, consequently, metaphysscal, as conceptions of trite evolutionism.

The development of reality can be comprehended in all us fullness and multifermity only in the unity of quantitative and qualitative changes, evolution and revolution in social processes, continuity and ducontinuity, gradualness and kesps. As development is trached through the struggle of opposites and the transition ment is trached through the struggle of opposites and the transition of quantitative changes into qualitative definedow, a fewcontains its own essential and necessary moment of the agent the old and the emergence of the new. The leading well arongoing qualitative changes and the link between the first stages of development are determined by the action of the latthe negation of negation.

# Chapter VIII PROGRESS AND RECURRENCY IN DEVELOPMENT

From the historical and logical angles, the problem of negation drew the attention of philosophy at its very inception. This can be seen in the ancient thinkers' interest in the correlation of being and non-being, existence and destruction. The problem was lively discussed in ancient Indian philosophy According to the Vaishesikas, being is correlated with various kinds of non-being or negation, such as previous non-being, the non-being of a thing resulting from its destruction, the non-existence of one thing as another, etc. Heraclitus, Democritus, Plato, Aristotle and other Greek thinkers considered the problem of being and non-being from different philosophical positions. In late periods, too, the essence of negation and its role in the existence and change of things was studied by many philosophers, notably by Spinoza, Kant and Hegel. All these interpretations of negation were ultimately related to particular notions of the character of changes taking place in reality, of the development of the world,

#### 1. Circulation or Progress?

Different answers were given to the question as to what happens in the world when things disappear and ovent replace on another. Many philosophers identified negation with the simple destruction of things. They inferred from this that real development was impossible in the world. Many believed in ancient times that man's Golden Age was a thing of the past and all subsequent bistory was a courtaint movement along a descending line, a continuous regression. Such a view on the world was held, for stample, by the ancient Greek poet Heistod (8th century B.C.) who said that the age of human happiness, the Golden Age.

## 2. Negation as the Most Important Element of Dialectics

Negation is often treated as a purely logical operation an many philosophera consider it wrong to use the concept of at gation outside consciouners. Some of them justily their view b arguing that being is always positive, while non-being (which is often equated with peration) does not exist at all. Is the real so? Without providing a specific treatment of the opposition of being and non-leing, we shall umply point out that the diskercal solution to the problem consists in the fact that the oce is being constantly transformed into the other, since everything B becoming, developing, or passing away. In this way all that exist as being also contains non-being, i.e., is the unity of being and non-being As materialists see it, non-being is only possible in repret to specific material formations (entities), rather than is objective reality as a whole Matter is indestructible and uncreatable. Moreover, it would be wrong to interpret non-being itself as an abstract nothing Non-being is always the non-being of something, of something concrete. It is therefore in essence other-being' and not some 'flaw' in being. Furthermore, by po means does materialist dialectics identify the concepts of negation and non-being The meaning of the former category becomes clear when we consider what we have said above about the contradictions and qualitative changes in development. The sery content of dialectics as a doctrine of development includes, as its indispensable element, the recognition of the negation of the old and the generation of the new

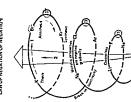
The unfolding of objective contradictions leads to their esolution, to a qualitative thange in phenomena, the randomition of things into their one and objective the particular to the property of the continuity, the destruction of some desceptive to a break in continuity, the destruction of some description of the material entities. By negation materialist dialectics means the process whereby a thing is transformed into something essentially different by virtue of the internal and external contradictions endemic to it. The rote played by dialectical negation in this development is to complete it within the framework of the old quality and to where in the existence of a new thing. Without

negation (and the leap that is closely connected with it) matter would indefinitely remain in one and the same form. Without negation there could be no development and transition from the lower to the higher. 'In no sphere,' wrote Marx, 'can one undergo a development without negating one's previous mode of existence.12 One should note here that negation is not paralleled by the action of other laws of dialectics, but is closely linked with them. Negation becomes possible in the process of development only as a result of the transition of quantity into quality and the struggle of opposites Where quantitative accumulation has not been completed and contradictions have not yet matured, however, there is no negation as a real process It is therefore useful to distinguish the concepts 'negativeness' and 'negation'. The former is nothing but the self-contradictoriness of a thing, the unity of its opposite and negative aspects, while the latter expresses the real act of its qualitative change. Since contradictions have objective and universal characteristics negation should be regarded as a necessary and universal moment of development.

In inorganic nature, for example, negation is manifest in the comeogonic activity of the nuclei of the galaxies, i e, in the explosion, disintegration and formation of stars and stellar associations, in the mutual transmissions and annihilation of elementary particles, in the commentations and subscriptions of the contraction of the c

Negation is based on unfolding contradictions and is therefore regarded in materialist dialectics as the self-negation of a

K. Marx, 'Moralising Criticum and Critical Morality'. In Karl Marx and Frederick Engels, Collected Works, Vol. 6 Moscow, 1976, p. 317.



from the first to the last partial me standard and tree prigmins presented WORSELFT VINCOUS STATEMENT CLEARLY SHIP 113 144 PAREL Each failmanny standard me hance the ACHTER THE LAB Period alive in the re

3. Cyclic nature and represtability at a higher level

2. Progressive nature of development

THE SPIRAL ILLUSTRATES THREE

INTERCONNECTED ASPECTS Continuity in development OF THE LAW

thing, a special level or stage of its own development. The capitalist mode of production, for example, exacerbates its own contradictions as it evolves and thus makes its own destruction objectively possible and necessary. It also creates the social force—the profetariat—that must become its grave-digger and the bearer of a more progressive, socialist mode of production it is in this sense that the capitalist system negates tited, being as subject to natural laws as any natural-historical process

This example also brings to light other features of dialectical negation. For instance, it is contradictory in its results: it is the unity of destruction and emergence, of non-being and becoming. The self-negation of capitalism is simultaneously the assertion, the establishment of another, opposite social system-actialism. Another conclusion that follows is that negation in dialectics has a definite content. It is not the transformation of a thing into abstract nothing, but its transformation into 'tto older feine Andere). In the course of proletarian revolution capitalism is negated by a quite definite social system—socialism, rather than by any other system. There is moreover a necessary connection between the negated and the negating: the new mode of production retains the productive forces created at previous tages of the development of society.

#### 3. Concreteness of Negation

Negation always has a certain defined content and is therefore concrete, specific. This means that the mode of negation depends on the nature of the phenomenon and on the conditions in which is development occurs. Every kind of thing therefore, wrote Engels, 'has a peculiar way of being negated in such a manner that it gives rise to a development, and it is just the same with every kind of conception or idea.' The varied manifestations of dialectucal negation can be broken down into three main types.

Most important is the so-called 'sublation' (Aufheben), i.e., the negation of a thing retaining some of its elements and structural links in the new phenomenon; these are incorporated in the

<sup>\*</sup> Frederick Engels, Anti-Dühring, Progress Publishers, Moscow, 1978, p. 173.

earne quality as avergenerate of us anyenic white the estate of E ava of outleting meson a anniharmous announcing and must one of white in negative, sentitioning to firm said prisone? mit und erentenn Clubenternet alle, mitternet in ebente gratife to the overent of conservant of three ground, settle and thing prairie. The enne thing that pomes about as a small then assertant excelegated bestern, securetaly ablests to ppen and subst stage of these general In the foreign of the gano matter that had of engagement. In the forester is freeze that had of engagement, for example, appears in terminal set if a carling land of the carling formed characters have surplied with further croop heatens of the above structure to a series of their cal elements. Amorane mature consolidates the result of on fation in the stateling of enating and energing limb of offium He development of armer is round to the conof human generations, of profession force and social facet assuming the form of subdatest. In the committee preced rely tively true knowledge is specified and threshood in the land and James

One meditection of sallative in transformition, with mibe set apart as the second type of dulettival prejient for type leding priseces that premote the very basis, the corol a thing rather than 'tetaln' its separate elements. In the the lower gradually invergence and in converted into the liferwhich happens during the transition from one time in letterwhich happens during the transition from one time is deviced in the large transition of a medrice is its negation. This negation is expressed in its immediation into a proposal and stall; in num the continuous prospection subsequently gives rise in hundreds of rice seeds, most nation also applies to many social processes, such as ofversion of pre-monopoly capitalum into imperialies, the origination of the state of prolessions of the ship into a state of the whole people or, on the present the modelling of the individual as a chall becomes an afair.

The third type of dialectual negation comprises there gas taive changes in things that are termed disintegration, there, determined, explosion, 'elimation', 'min', disappearant' 'degradation', 'withering away', etc This is overtled desiration negation or destruction Under destruction the moment of the 'retention of the positive' either does not exist at all or is mainfested to a negligible extent. Destruction means the termination of the evistence of a specific object; and can express an impasse in some direction of development. Such negation may also result from an external influence on a given system which destroys its structure and eliminates is if the force of the influtone exceeds the energy of the system's internal connections Many processes in inorganic nature are destructive Destructive negation is especially essential in the animal and vegetable worlds. The relation of food and its consumers (plants and phytophagas, carrivorous animals and their prey) is after all nothing size but the relation of destruction. If elimination, destruction, death and other destructive processes are regarded on the scale of universal connections between material objects and with an eye to existing types of negation rather than as solated acts, they prowe to belong to development useff rather than being outside its bounds, they are the necessary moments of development without which the latter is quiter impossible.

Identifying the different types of negation, viz. sublation, transformation and destruction, makes it possible to gain a deep insight into the opposition of dialectical and metaphysical notices of negation. In nature any negation is dialectical if it is considered without reference to man It is a different matter in seciety, because this is the scene for the actions of people who realise particular negations. Feople's acts, however, may not, within certain limits, correspond to the objective laws governing the development of a particular social phenomenon, either because they do not know these laws or because they have a vest-ed class insteres. In relation to people's consciousness and acts, therefore, we can and must use the concepts of dialectical and metaphysical negation.

Non-distriction regation is purely subjective, 'empty' and 'futtle' This is the view of negation taken, for instance, by adherents to 'negative dialective' (Theodor Adorno, Herbert Marcuse and others). They raise destruction into an absolute, and turn negative into an act of universal remunciation, robbing it of any positive content. So-called 'inhilium' reduces all negation to simple destructiveness and preaches negation for its own sake. Nhilsim can assume different forms, such as the destruction by the hongweighting of cultural monounerus, desguange this with

'revolutionary' rhetoric, the pawive rejection of existing to happy groups, the 'total negation' practiced by alloyd left-wang extremint and pseudoevolutionary element, the less seguitation of desperate people, and acts of barbarian generate.

While criticising mhilism it would nevertheles also be set to go to the other extreme by trying to look for something to go to the other extreme by trying to look for something to the distriction of the property of the pro

#### 4. The Universal Law of Development

Having elucidated the opposition of the dialectical and including approaches to the concept of negation we can obtain the concept of negation we can obtain a concept of negation we can obtain a consideration of negation as does not necessary to be a consideratively new phonomenon which is in its true in hereatly contradictory and is consequently itself negation stome stage. The questions that naturally arise with regard to the

<sup>&</sup>lt;sup>5</sup> V. I. Lenin, 'The Achievements and Difficulties of the Sourt Government', Collected Works, Vol. 29, Moscow, 1965, p. 70

are: Is there a regularity in this series of successive negations? What is the general trend and form of the whole process of qualitative changes?

The first substantial to the control of the substantial trends of the substant

The first scholar who tried to answer these questions was Hegel. He was the first to coin the term 'negation of negation', using it to denote a special law of development According to Hegel, any definition of the Absolute Idea was contradictory, contained a negation in itself and therefore turned into its opposite.4 In turn, the definition (category) opposed to the first was itself subject to negation Since the second definition was a negation of the starting point its own negation already appears as the 'negation of negation' Thus, development as a whole assumes a form of movement from the starting point (thesis) through its negation to the negation of negation. What takes place at the stage of the negation of negation, according to Hegel, is a return to the starting point, on the one hand, and an enrichment of the idea, on the other; for the negation of negation is the highest synthesis of positive and negative definitions or attributes. As in several other cases, Hegel here guessed some features of the objective dialectic of things in the dialectic of concepts. The founders of dialectical materialism discarded the idealist

to counters of dialectical materialum discarded the idealust interpretation of the eategory of negation, and Hegel's schema-tisation, and revealed the true meaning of the negation of negation as an element of dialectics. The content of this universal law of development is represented as a number of stages linked with each other in such a way that one is the negation of the other; b) the processes of delactical negation synthesise the positive aspects of the preceding stages of development, which gives rise to the continuity between the new and, the old mailties; c) that continuity enriches the whole process giving it the character of an accreding, progressive movement; d) there is relutive returnercy, and presumably returns to the old in the relutive terrurnercy, and presumably returns to the old in the process of development, which are children of development, which are children or the old in the relutive terrurnercy, and presumably returns to the old in the relutive terrurnercy and presumably returns to the old in the relutive terrurnercy and presumably returns to the old in the relutive terrurners.

One should remember here that for film development assured the form of a self-unfolding of the concepts and carecones contained in the Abadute Spirit.

#### 1. Diebertier and the Tried

the field are that the specimenal Microscope (\*) ation which as her prefere on the other purposes to adventure to the set of plants a peak the sections of the second subtraction the need of triefs the method of electronic formation. nicha mi di it mengan be bat bire m materine a al. THE A PHILL AS ASSESSED STANKED BY AN APPRICAL SECTION OF SAME APPRICAL ASSESSED. AS after at any other a surgetive fair three , seguing of pure emphases. At show engine man managely the for an and approaring as at therete grant ments imparately by a transfer of wal to a terminent printing the trial to be the ability for a showed groups and some from a so private as a fined of morning one to explain under the early process. Is the energy of the are the negation of negative relatived by the everyted degree Of eventure over The trend has receiving when it refer to have explaint analysis of the shreehyment of a convention that status state of an abstract of expension through their paints and the straight to creeke the contradiction This is a conan important place in Hegelian philosophy prompt to the development of encepts. Moreover, Hegel interpreted they tion of organical or 'the third' as the neutralization of harmer tion of opposites in some higher synthesis rather than the miltion of a real contradiction. Yet be considered the miner of (Triplicate) to be 'actually and on the whole och the same outward aspect of the method of knowledge, It is tracked trary to the trary to this correct idea Hogel also declared the trial to the universal form of his dialectical method, which led him is to

cases to an artistrary schematisation of real phenomena Processes often occur in nature that can be treated at such to a kind of triple thythm. Such is the development of con-Brain-plant ear. But for the very content of the Brain negation in the negation in the unity of all its components (sublation, progression) tion, progression, pseudoreturns, etc.) this 'comman' risks if imparted from outside, as something superficial The roll

G W. F. Hegel, Samtliche Werte, Fünfter Band Herrette Logik, Zweiter Ted. Die subjektive Logik oder Lehe von hert. Fr Frommanns Verlag, Stuttgart, 1928, S. 344.

a fixture of the quantitative aspect of the process in some respect. Various definitenesses of an object may be taken as the units of counting, both en number 'three' and others. For instance, in the periodic system of chemical elements the recurs.

tame, in the periodic system of chemical elements the recuof certain features is manifest in more than two conscunegations, for each of the elements appears as something reat from the preceding one, i.e., as its organion. The search isda as three tages of development custing separately ofcased to a condepherostation of real process.

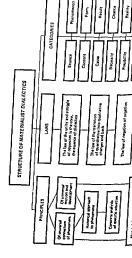
rads to a crude schematisation of real processes is also applies to the use of the triad formula in argument itations that Marxism involves belief in triads, in abstract nes, are either due to the ignorance of the essence of the er or to its deliberate falsification. On what basis did Marx in Capital the law-governed character of socialist revoluthe 'expropriation of expropriators'? On that of the triad? ainly not. It was Mark's analysis of the essence and laws of capitalist mode of production, of its internal antagonisms class relations in bourgeous society, that led him to a scieninference, corroborated by history, about the law-governed negation of capitalism as a social system. On the other i, Marx used the concept of the negation of negation in forating his conclusion, for the world as a whole and each of its ifestations in particular ultimately develop in a dialectical , and capitalism is no exception in this respect.

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be scientific conception of the general regularities of self-leoping matter is not limited to be principal have of dialecticated here. If we are to comprehend the development objective reality in all in complexity and comprehensiveness must not only reveal the source of movement (the unuty and agile of opposites), the mean of implementing changes in lity (the transition of quantity into quality and back), and direction of qualitative changes in concrete material systems of the control of the cont



Chapter IX
SOCIETY:
OBJECTIVE REGULARITY
OF DEVELOPMENT
AND PEOPLE'S ACTIONS

With the development of matter, objective dialectics undergoes changes: qualitatively new laws and contraductions appear, the rate of evolution increases, etc. The general dialectical regularities thus become specific, and this is manifested particularly graphically in the social sphere.

#### 1. The Dialectics of Social Life

Society is the highest, social form of the motion of matter. It is a product of interaction among people, i.e., it represents a complex dynamic system of their varied material and spiritual relations.

With the development of society the objective dialectics of development becomes essentially richer and more complex. This is because in society, unlike nature, people are endowed with consciousness, feeling and will. Their aspurations, strivings and practical action of diverge and, in an antagonistic society, are directly opposed. Dialectical laws are also particularly manifested in society opposed. Dialectical laws are also particularly manifested in society cases social processes present a combination of natural and spiritual factors and objective and subjective elements. The functioning mechanism of social laws includes a functionally new component as compared to the laws of nature—the social subject (individual, social group, class, society as a constant, the laws of social processes. Unlike the laws of nature, the laws of social development concern people's activity, the laws of social development concern people's activity, the laws of social development concern people's activity as the spiritual social processes. Unlike the laws of nature, the laws of social development concern people's activity as the processes. The spiritual social processes which is the proposed of the spiritual social processes of the laws of nature, the laws of social development concern people's activity.

ry, he struggles up through it." However, not only the seed laws proper—e.g. those of the class struggle in an anagenize society, the law of value in commodity production, etc.—but sit the general laws of dialectics reveal themselves in the history of mankind, in the development of social rections and in people social actions. Thus social necessity is expressed in the social section of the masses and the progressive classes. The reactionary classes, on the other hand, go out of their way to prevent the consolidation and realisation of progressive social tendencia. At the same time social laws do not break down in people.

purely subjective actions The laws of society are as objective as those of nature. They are substantial in character and differ from people's acts in their stability and constancy. This is because the necessary foundation of society's existence is material production. The conception of the dialectics of social life in the unity of its objective regularity and people's conscious activity has only become possible with the creation of historical material ism Marx and Engels discovered the general laws of human his tory and provided a materialist answer to the fundamental question of philosophy as applied to society. We have already noted that dialectical and historical materialism arose as a single teaching, as an integral philosophy. Historical materialism is impossible without dialectical materialism, and vice versa Nonhistorical' dialectical materialism is as inconceivable as nondialectical' historical materialism. Marx gave his classical account of the main principles of historical materialism in the Preface to A Contribution to the Critique of Political Economy In the social production of their existence, men inevitably enter into definite relations, which are independent of their will, namely relations of production appropriate to a given stage in the development of their material forces of production The totality of these relations of production constitutes the economic structure of society, the real foundation, on which arises a legal and political superstructure and to which correspond definite forms of social consciousness The mode of production of material life conditions the general process of social, political and intellectual

Rabindranath Tagore, Stray Birds, Macmillan, London, 1926, p. 14.

life. It is not the consciousness of men that determines their existence, but their social existence that determines their consciousness. At a certain stage of development, the material productive forces of society come into conflict with the existing relations of production or-this merely expresses the same thing in legal terms-with the property relations within the framework of which they have operated hitherto From forms of development of the productive forces these relations turn into their fetters Then begins an era of social revolution. The changes in the economic foundation lead sooner or later to the transformation of the whole immense superstructure. In studying such transformations it is always necessary to distinguish between the material transformation of the economic conditions of production, which can be determined with the precision of natural science, and the legal, political, religious, artistic or philosophic-in short, ideological forms in which men become conscious of this conflict and fight it out. Just as one does not judge an individual by what he thinks about himself, so one cannot judge such a period of transformation by its consciousness, but, on the contrary, this consciousness must be explained from the contradictions of material life, from the conflict existing between the social forces of production and the relations of production. No social order is ever destroyed before all the productive forces for which it is sufficient have been developed, and new superior relations of production never replace older ones before the material conditions for their existence have matured within the framework of the old society. Mankind thus inevitably sets itself only such tasks as it is able to solve, since closer examination will always show that the problem itself arises only when the material conditions for its solution are already present or at least in the course of forma-

Marx here formulated the essence of the dialectico-materialicoroption of social development transition from one section recognition formation to another takes place logically as a result of the enusing conflict between the productive forces and perduction relation. These are the two aspects of the mode of pro-

<sup>\*</sup> Karl Mars, A Contribution to the Critique of Political Economy, Progress Publishers, Moscow, 1978, pp. 20-21

disction, the material hails for the mintener of all social phentena, this confect, however, is resolved in people's strongle and wells action.

#### 2. Social Action and Its Laws

Historical materialism disproves both the voluntaristic and le talutic conceptions of human life. What is wel-marism? It is to negation of any regularity in the social process and a subjective idealut view of fustory. Voluntarints treat the history of somy the effect of absolutely free volitional acts of separate percentties undetermined by any external causes. These personalizes are heroes, they are men of genus, commanders, kings, prenders, legulators, and saints. It is through their efforts alone that soul progress comes about Modern voluntarius hold, for instact. that the course of history can be altered at will, ie, that one can present the movement of nations towards peace, national and social liberation and socialism, that one can perpetuate the design oping countries' dependence on imperialism, skip the necessistages of social development by means of all kinds of big keep solve fundamental socio-economic problems using separate silve jective administrative measures, etc.

Fatalum, on the other hand, is a religious idealuse and the concerned with the predetermination of man's destiny and the concerned with the predetermination of man's destiny and selective to the commance of fates and blind necessity. Fatalists deepy man's selective to influence the course of events, and wholly subordinary fatigates the constant of the control of t

spread of dangerous infectious diseases, etc.

Unlike voluntarism and fatalism, dialectical materialist philosophy assumes that although people are unable to abrogate ob-

jective laws, they are not powerless in face of them.

The materialist conception of history, notably recognition of
the objective regularity of social development, does not exclude
but presupposes the exustence of an active social subject. The lift
of society is after all the realisation and result of people's prati-

ral activity. It is necessary in this context to go into further de-tail about people's action. Bourgeois authors usually identify social action with any manifestation of individual behaviour and treat social action as the purely psychological relations between people, as 'interaction'. Social action can of course in a certain sense be regarded as resulting from the integration of volitional, intellectual and emotional efforts on the part of separate personalities. Yet it would basically be incorrect to reduce it exclusively to interaction, to the psychological reaction of individuals Such a reduction fails to disclose the content, causes and direction of people's socially significant activity. How can we, for example, explain the aggressive policy of reactionary regimes, class conflicts, national liberation movements, and so on, if we rely solely on psychological factors? Of course, psychological factors, e.g., the personal qualities of political figures, affect the course and character of social development. What matters in the workings of social dialectics, however, is not so much the behaviour of separate personalities as the process of revealing the laws governing the action of large groups of people, of the masses and classes. Marx's and Engels's great service, Lenin wrote, was precisely that they generalised and reduced 'the actions of "living individuals". . infinitely varied and apparently not lending themselves to any systematisation . . to the actions of groups of individuals . . to the actions of elasses . . . . Docial action is above all the efforts of large masses of people (classes, the working masses, the people).

Social actions take many forms. Depending on the character of social relations and the sphere of activity, a distinction is made between economic, production, political, cognitive, moral, religious, and other action. Actions can be violent (compulsory, military) or non-violent, spontaneous or conscious. Depending on the subject one can talk in terms of group, class, national, state and other forms of action. With regard to social progress action can be revolutionary or counterrevolutionary, progressive or reactionary.

V. I. Lenin, 'The Economic Content of Narodism and the Criticism of It in Mr. Strave's Book', Collected Works, Vol. 1, Moscow, 1961, P 411.

The materialist conception of history has provided a serond explanation for the basic laws governing man action Mat in portant is the law of the material determination of social secon The basic form of human activity is material activity, and the determines all others, such as political, cultural or religion and vities. It is this law that generally determines the subsed are of various types of social action. People's actions in the above of material production (in the development of the probacts forces and in changes in the production relations) condition to objective foundation and the necessary prerequisite for all release social action. In specific historical conditions (eg dume the struggle for national liberation or during revolution as events are propelled by mass political action. Moreover, it would be wrong to draw a sharp distinction between probation and political action politics is, after all, a concentrated expressed of economies. The exploster state defends the existing but above obsolescent relations of production with all the power of 10 M paratus of coercion. Thus the main question of the nexal profetion is that of power, of its relation to the state. Political action and the class struggle are naturally the decisive factors is thank ing the economic base and transforming the social equivalent ture

A root unportant law of social action is that of the grand troot of the popular masses in the historical powers. The god of the law is that the growing scope and importance of har and action is parallebed by the growth in the numbers of pasts who week to being it about. The logger the must problem for a we know that transfer in the totality of said within a farming the manner of the country of said within a farming the manner of the country of said within a farming the manner of the country of said within a farming the manner of the country of t regrated softent of sextal action. People are the makers of his er. If is is a firefairental permitte of historial master of the contains of the Industria terrane, was chusting in the tranged himney to a clear member than can connect of if florest Clears Price the record of the period is negligible words and present, the period is nets of section of grants. The group to are the securitable losses and to of the pages store on opening to the the transmit with the Corn the materials classes. It is the gift property of the 34 senten man al fringrenne La coura ne mal record planted an alle do the many two rise manual monuments and although the re-Surveys and me and se their entities are se sententies are se sententies are se

and struggle against imperialism, colonialism and neocolonialism, and for national liberation and peace.

The most challenging social task mankind has ever coped with —that of the socialist transformation of society, man's emancipation from all forms of oppression and exploitation and the creation of conditions for the all-round development of a working man—can only be accomplished through active, conscious social action of the working class allied with the broad working masses (above all. the nexastrupt).

Among other general laws of social action are also those concerning the growing role of the subjective factor in the social action of the people in step with historical progress, the embodiment of progressive ideas in the people's practical action, etc

People's acts, which are different in direction, content and results, make social dialectics unique and realisable in practice, the character of manifestation of the general laws of dialectics depending on the specifies of the existing social relations

#### 3. Capitalism: the Dialectics of Antagonism

The universal laws of dialectics that operate unconditionally in history are manifested in different ways in the development of specific sectioexcoronic formations. It would be a mixtude herefore to fall to see, for example, an essential difference tenters the dialectics of a class-antageomies society and that of textures the dialectics of a class-antageomies society and that of textures the dialectics of the chargeois except and that of textures the surface of the particular case of dialectics. In Gaptal Marx revaled the very essence of beaugeois economic relations to be the source of the furceoughlable epocation between the interests of the tocarpoint and the predefinant At the same time the dialectic here where due to the basis of beaugeois servely is of fundamental importance in understanding soxial dialectics in present The dialectic of burgeois soxiet is a particular case of dialectic and the state faulth because the objective dialectic of nature also examined and possible it; in which the general regulations execut themselves

<sup>1</sup> V. I Lenin, On the Question of Dialectus', Collected Works, Vol. 33, Manner, 1964 in 361.

in a different way to those governing people's social actions, and secondly, it is a particular case of dialectics of the socio-creatic process as a whole.

The objective dialectic of bourgeois society has its characteristic features. It is above all marked by antagonistic social centures intons caused by the domination of private property and bean exploitation, as well as by social and national oppression experience of the property of the process society develops in class struggle. Progress under capital success and alimited Society develops in a contradictory as uneven and limited Society develops in a contradictory as pontaneous fashion. Social relations are dominated by order than the property of the p

According to the materialist conception of history, the replace ment of socio-economic formations by other, more progresse ones is a social law expressed in the revolutionary action of the popular masses Socialism and communism are the necessary outcome of the whole of human history and are the direct of sult of a revolutionary transformation of capitalism. This distritical materialist thesis, fully borne out by the realities of weld socialism, has today become the pivot of acute ideological in the gle. Bourgeois writers declare socialist revolution outland. alleging that any objective factors causing it have disappeared and that capitalism has supposedly overcome, under the strength and technical revolution, the contradictions earlier endemic to This idea persists in some modifications of the 'post-industrial so ciety', 'organised capitalism', 'social partnership society', 'ju ratic socialism', and other theories. In India it is propounded to the theoreticians of the big bourgeosie, who orient themselves a wards capitalist development since the victory of the native liberation revolution. The thesis that the objective ground is negating capitalism are absent is often coupled with the steet tions of various extremist elements that the working class is capable of being the subject of revolutionary action today becare it has become 'hourgeouified' and 'integrated' into the cum's sortal regime. Some clarification is needed here as to the corretion between objective and subjective factors, in history in grant al, and in revolutionary action in particular.

#### 4. Objective Conditions and Subjective Factors of Social Development

The relation between man's conscious activity and the circumstances in which he acts are expressed by the categories 'objective ronditions' and 'subjective factor'. The latter is a particular degree of people's consciousness, the organised action, will and energy necessary to attain the goals they have set it is necessary to draw a distinction between the concept 'subject of action' and 'nobjective factor'. The chief subject of mittinary action, for example, is the armed forces, the army, while the subjective factor for the army as a whole is above all the moral and volutional qualities of the troops such as men's militarty training and discipline, their commanders' experience, abilities and will, military knowledge and skill, the soldiers' ideological conviction and moral endurance. etc.

In social transformations, the category of subjective factor expresses the combination of ideas with people's purposeful and organised action. The subjective factor thus characterises the subjects, activity. The category 'objective conditions', on the other hand, denotes that which does not depend on the will and activities of a given group of people, party, class, or society as a whole, in the context of a specific social process. The objective conditions are the determinant source of social action.

The leading role of the objective conditions is fully expressed in the revolutionary action. They are decisive in social change because they first of all determine the actual need to overcome mature to effact outstaffictions and consequently direct people's acts. They also create as real possibility for attaining the social objectives in-

volved in transforming social relations.

What are, specifically the objective conditions of a socialite revolution? Above all they comprise the material perrequiers, a definite level of the productive forces, conflict between the productive forces and production relations and an exacertation of all the world antisponium of bourgois society. It should be specially streed that the elejective perrequisites for revolution include the waking class, the leading force in the socialite transformation of serior. They sho include a whole templets of terromations.

termed a 'revolutionary situation', such as the impossibility for the ruling classes to preserve their domination intact, a crisis in the top strata of seciety; an inability on the part of the oppression classes to go on living in the old way; the growth, beyond is measure, of the poverty and destitution of the working mass and so on.

The objective conditions ultimately underlie the need for revolution. Yet the social transformation itself is realised by a visual class whose action also determines the content of tenanges occurring in society. The subjective factor thus play a important role in the revolution. It incorporates the proleamly and other working people's mastery of communit itself (global gual component); the will and determination of the webling to the component); and the organised and purposeful action of the procomponent); and the organised and purposeful action of the procomponent); and the organised and purposeful action of the procomponent is party in the revolutionary struggle (organisational advantage).

practical component)

Having thus clarified the correlation between the subjective and objective factors in revolutionary action we can now ceasing the dialectic of modern capitalism. Contrary to the assrried of bourgeois ideologists, the nature of capitalism has not clarified by the contrary to the c

### 5. The Law-Governed Nature of Socialist Revolution

There are, of course, quite new phenomena in the development of modern capitalsm. Its tendency to adapt isself to the continuous of struggle between the two systems, and to the regiments of the scientific and technical revolution, strengthen that state-monopoly character of imperialism and makes the rule classes adopt a more flexible social policy. These classes are not may a wider use of such levers as the state's stimulation of the monopoly concentration of production and capital, the redunction by the state of an increasing portion of the national isory, the granting of military orders to monopolice, government faster.

ing of industrial programmes and scientific research, the drafting of nationwide economic development programmes, a policy of economic integration, new forms of captal exports, the establishment of transnational monopolies, and necoolonalism As the dass struggle grows the bourgeoisie is resorting to social manoeuving and is forced to make some social concessions in the capital the working people are wresting certain nights and guarantees for themselves.

Nevertheless, all attempts to 'cure' capitalism and create a welfare society' within its framework have obviously failed It is becoming ever more evident that capitalism is a society without future. Monopoly domination tends to preserve the social anta-gonism traditional to capitalism, which is expressed in people's material hardships, unemployment, high costs and economic recession. It also engenders new antagonistic contradictions. This applies, in particular, to the contradiction between the unlimited possibilities opened up by the scientific and technological revolution and the roadblocks raised by capitalism to their utilisation for the benefit of society as a whole Capitalism squanders national wealth, allocating for war purposes a great proportion of scientific distoveries and immense material resources. This is the contradiction between the social character of present-day production and the state-monopoly nature of its regulation This is not only the growth of the contradiction between capital and labour, but also the deepening of the antagonism between the interests of the overwhelming majority of the nation and those of the financial oligarchy." In his Report to the 26th Congress of the CPSU Leonid Brezhnev stated that the recent years have seen a further aggravation of the general crisis of capitalism, the shrinking of the sphere of imperialist domination in the world, capitalism's third economic recession in the past ten years, further aggravatoin of inter-imperialist contradictions, a more frantic scramble for markets and for sources of raw materials and energy, an unprecedented rise in military expenditures, a sharp growth in the aggressiveness and adventurism of the imperialist policies, above all those of American imperialism, and exacerbation of inner contradictions in the capitalist countries.

International Meeting of Communist and Workers' Parties, Moscow, 1969, Prague, 1969, p. 19.

ral and day labourers) accounted for 612 per cent of the printily employed agricultural population in Kerals, 51 per cent of Andhra Fradesh, 473 per cent in Bhar, and 453 per cent West Hengal

While noting the leading role of the working that in the aniimperialist struggle and its growing revolutionary potential today we must also consider other essential moments in the dialectic of revolutionary action. It is important to stress that the social bar of socialist resolution is not limited to the working class. The revolution differs radically from all previous revolutions in this it frees the working masses from all forms of exploitation and awakens them to creative activities. Socialist revolution is there fore by its nature and aims a genuinely popular revolution, product of the social action of the majority of the people No. only the proletariat, but also the semi-proletarian and perbourgeois sections of town and country take part in it. As a 55 tem of social and national oppression imperialism does not ocestablish new forms of exploitation, but also conserves pre-optalist forms. The peasantry and the petry-bourgeois mass, s well as the proletanat, are interested in socialism which bigs them liberation from oppression. Non-proletarian social sectors comprise the majority of the population in the developing comtries. Especially great importance in the revolutionary process acquired here by the alliance of the working class with the perantry and non-proletarian masses. This alliance, if it is led by working class, is decisive for the successful struggle of developing nations for national and social emancipation.

The objective law of the transition from capitalism to soliism is increasingly evident in our speed, but it is only realised is a sharp strongel of the revolutionary forces against imposition and reaction, rather than attendatedly. In these conditions subjective face revolutionary action grows sharply in signtance, specifically of revolutionary action grows sharply an increatance, specifically of revolutionary action grows sharply an increatance, specifically of revolutionary action grows the bearing of tance, specifically of the stronger of the specific of the working class and revolutionary intitiative, the liberation of a working class and its suffer from reforming illutions, the organtion of all anti-imperiation, etc. The success of the welter's struggle in attaining their class objective is largely depet dent on a correct determination by the working class and fecommunist parties leading it of the most expedient forms and methods of revolutionary action.

#### 6. On the Role of Social Violence

It has now become necessary to deal with a very topical problem of the role of violence in social change. There are two equally one-sided theories on this problem. The adherents to the first make an absolute of violence in human history, proclaiming it to be the ultimate cause and principal method of all social change. Nowadays such idealistic and voluntaristic views are held by the most reactionary imperialist circles staking on nuclear missile war to solve international issues. This theory is also propounded by militarists and all kinds of hegemonic forces pushing nations to a new world war. Neo-anarchist, neo-Trotskyist and other extremist groupings of petty-bourgeois revolutionism rely exclusively on violence. Various Maoist groups practice tertorist acts and political assassinations. The acts of violence, gangsterism and murder perpetrated by extremist elements only hamper the formation of people's revolutionary consciousness and unity of action. The absolutisation of violence is politically harmful and theoretically untenable.

This is an idealistic view of history. Violence is not an independent and determinant factor of social development. It does not produce the relative policy of the product of the product of the control of the control

While noting that violence is dependent on and derivable

Karl Marx, Capital, Vol. I p. 703.

ral and day labourers) accounted for 63.2 per cent of the gainfully employed agricultural population in Kerala, 51 per cent in Andhra Pradesh, 47.3 per cent in Bihar, and 45.3 per cent in

West Bengal While noting the leading role of the working class in the antiimperialist struggle and its growing revolutionary potential today. we must also consider other essential moments in the dislectic of revolutionary action. It is important to stress that the social base of socialist revolution is not limited to the working class. This resolution differs radically from all presious revolutions in that it trees the working masses from all forms of exploitation and awakens them to creative activities. Socialist revolution is therefore by its nature and aims a genuinely popular revolution, the product of the social action of the majority of the people Not only the proletariat, but also the semi-proletarian and petrelourgeon sections of town and country take part in it. As a pretens of social and national oppression imperialism does not only establish new forms of exploitation, but also conserves pre-caps talas forms. The peasantry and the petty-bourgeois masses, 46 well as the proletarist, are interested in secision which bring them liberation from oppression. Non-proletarian social section comprise the majority of the population in the developing rounties. Especially great unportance in the residutionary prices a scripted here by the affiance of the working class with the pear antry and non-proletarian masses. This all tance, if it is led by the working class is decisive for the successful struggle of developing nations for national and social enancipation

Be of pertor law of the transfer from capitalism to with set in internangly evident in our speek, but it is only realism a sharp structly of the recolationary forces about importanneous fraction, rather than automatically in these tenders on a ferror batter of recolationary action, grows happy in supertives, speed aby the development of the productival feature around some district and recolationary nutrative, the highest inside tions of the and train a section reformation from the state of the state training of the state of the section of a train of all acts on personal reconstructions. The meson of the expression is storing of the state of the state of the state expression in storing of the state of the expression is storing of the state of the state of the state of the old of the acts of the state of the st communist parties leading it of the most expedient forms and methods of revolutionary action.

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pendent and determinant factor of social development. It does not produce conomic relations, but is itself dependent on the stemming from the development of antagonastic contradiction in a class society, Force, words Mary, is itself an economic pocri<sup>1</sup>. A state as 'concentrated and organised force of society<sup>3</sup> an organisation that implements the volence of the ruling class The economically dominant class uttimately establishes its poliical domination, And if this class eventually losse its dominaposition in the economy, political power must inevitably pass another class, one that is progressive from the angle of society

mature economic needs.

While noting that violence is dependent on and derivab

<sup>&</sup>lt;sup>1</sup> Karl Marx, Capital, Vol. I p. 703. <sup>2</sup> Ibid.

from economic conditions one should not ignore its role in social development.

Similarly undislectical is the opposite approach to social phenomena. While proponents of the theory of violence view it as the principal factor in social development, there are also these who see violence as an absolute out to be avoided at all cost. It is such views, specifically, that are behind the abstract moral principle of the 'non-resistance to evil by violence'; the commandment that one should refrain from violence with regard to all living things, as proclaimed in some religions, e.g., Jainsin; the rejection of violent methods in political struggle (e.g., the principle of non-violence in Gandhi's teaching); the utopin videas of 'pure democracy' and 'absolute freedom', etc.

If the problem of violence is not considered with regard to all its implications, but only as applied to revolutionary action, some of its more essential aspects can be brought out in a elentific interpretation. According to lustorical materialism notical interpretation. According to lustorical materialism notice is an inevitable and logical product of exploiter society. Having arisen together with classes and the state, violence has become an intalienable element of social relations and political life. Under private property and human exploitation, violence as practised by the exploiter classes is the chief means of prescring the given social relations. Without violence directed against the exploited lords could not have exercised their domination. Nor can the capitalist appears exist without violence.

capitains system exist wintout violence.

Thus dialectic requires a contrete approach to the problem of violence. It can play a dual roke—reactionary—il it is aimed at preserving the already obsolescent social system—or revolution—ary—when it serves as an instrument for abolishing the obsolencent system and effecting the voctory of a new society. What causes the need to apply revolutionary violence?

Let us note, first of all, that the class trangel testly, which is the law governing the development of antagonistic formation, it in fact none other than volence. On the part of the opportunities classes it is a quite understandable response to the repins of pression and exploitation. The revolution, being the highest form of class struggle, only serves to reveal the resistance of the explainties of masses, ever present in antagonistic society, to the violence of masses, ever to the violence of the superior to the violence of the superthe ruling classes. Hence revolution does not beget violence bu only stimulates new forms of it—revolutionary violence.

Secondly, the economic relations of private property, exploitation and political power as object of revolutionary action are fixed in definite political organisational forms (the state, law which rely on powerful material forces (the army, police, melting genee service, courts, bureaucratic apparatus). Hence the revolutionary class has to overcome the resistance of the state-organise exploiter classes and is therefore compelled to use force in reponse to the latter's violence. This is specifically expressed in direct armed uprising, the arrests of counterrevolutionaries, the expropriation of private property, the dissolution of reactionar state institutions, etc.

Thirdly, revolutionary violence is indispensable because the establishment of the political domination of the profestaria does not mean the end of the class struggle. It continues in other forms such as through civil war, counterrevolutionary compiracies, as between such as through civil war, counterrevolutionary compiracies, as through civil war, counterrevolutionary compiracies, as through civil war, counterrevolutionary compiracies, as through civil war, centre for exercise state lease to be calcium the working class must therefore exercise state lease to be calcium the working class must therefore exercise state lease to this of the counterform of

It should be stressed at this point that the proletarian ducts tonhip, like revolution in general, is on no account exhausted by violence, and cannot be reduced just to that. The dictatosh of the proletariat, Lenin wrote, is not only the use of fore spaints the exploiters, and not even mainly the use of fored its main objectives are creative: to radically reconstruct the whole system of social relations on a sociality bassit to draw the peasant masses and the whole people into socialist construction and to establish the havin of empine democracy.

<sup>&</sup>lt;sup>4</sup> V. I. Lenin, 'A Great Beginning', Collected Works, Moscow, 196 Vol. 29, p. 419.

Thus under the relevant economic conditions violence prover both logical and justified. The forms and intensity of revolution any violence, however, may differ depending on the degree and methods of resistance put up by the overthrown exploiter cluser and the specific conditions of the class struggle. While supporing the use of all possible methods in the struggle for power (both peaceful and one-peaceful) the founders of scientific communion stressed that it would be preferable for the working clus to accomplish a socialist revolution in a peaceful way. Where propaganda leads to the goal more quickly and more surely, Marx wrote, 'an uprising a issane "A similar fields was expressed by Lenin. "The working class,' he said, 'would, of course, prefer to take power peacefulls".

take power peacefully. It would be undialectical and erroreus, however, to refy on that way alone. Even where there is a Pownton to develop peacefully. It would be undialectical and erroreus, however, to refy on that way alone. Even where there is a Powntolity for a peaceful transition to socialism it is by no means the obligatory or only possible path, for its realisation depends on the specific conditions of a given rountry. Insofar as a peaceful transition is also full of contradictions and struggle, and involved fieter entitiates and opposition on the part of the morphy bourgrouse, it too is not an exclusively non-violent transition. With a peaceful transition to socialism violence assumes various forms of corretion and the control of the working class over the bourgrouse.

tourgeouse. We see then that Marsist dialectics requires a specifically historical approach to the problem of violence. Therefore on should not made a one-used assumment of Gauldit's destrice of nonviolence. It is based on the shumed principle which feelsh doing any harm to bring creatures by thought, word or deel? He principle useff is quite abstract, and mapphable, for example, to the earlier of an explorer security, to the relation between internutic claws and letween opportunity and internutional claws and letween opportunity and internutional claws and letween opportunity and control of the claws struggle be avoided in an antarpointic security Of recurse not. The claw struggle is an objective law of the vasories.

by Maran R D Streets Conservant of the 268 by Louis, b Retropole Front in Russian Social Democraty Collected it sells, but 4, M mayor, 1961, p. 276

and development of a society bysed on private property and human exploitation, and it means violence manifested in various forms. The same applies to the struggle of peoples against unperialism to bring about national liberation and the elimination of colonialism. Revolutionary violence plays a substantial role in this social action to

Des that mean, however, that Gandhi's idea of non-violence is devoid of any rational content? No, it does not. For Mahatima Gandhi believed that the only way humaniy can rid tiself of violence is through non-violence. And in our own day this idea may also have progressive significance, above all with regard to relations among states. The ahimsa, as realistically understood, can mean precisely the renunciation of force in international relations, the outlawing of war and the establishment of the principle of peaceful coestience and peaceful internative rations. The Gandhian idea of non-violence can thus serve to strengthen frendship among peoples and to establish just internative relations have don mutual respect, non-interference and the settlement of all conflict through nevolution.

The role of violence in history cannot thus be treated abstract. It is pernicious for mankind to try and settle interstate issues by force of arms in our age of muckar missales and neutron bombs. But it is also true that violence is an indispensable factor in the dialectic of antasopsuite socio-economic formations.

Objective social dialectics assumes a qualitatively different

# 7. The Dialectic of the Development

The victory of the proletarian revolution and the strengthering of socialist social relations result in a fundamental change in the way the general laws of dialectics manifest themselves. Manylessential features of the dialectics of bourgeois society are freelegated to history—such as social antagonum, class struggle and conflict-ridden and spontaneous development.

The emergence and consolidation of socialism immensely increase the role of the popular masses as the subject of historical action A qualitatively new stage sets in in the functioning of social dialectics: the working masses, led by the working class with the community party at their head, start building, consciously and on a planned basis, a new form of social reality—communits total relations—using objective laws. The transition from capitalism to socialism randcully transforms relations among people, bring out new motive forces and sources of social development, and changes the type of social proress.

Socialism is the first phase of the communist formation. The Societ Union has built a developed socialist society, logical, law-governed stage on the road to communian The Constitution of the USSK gives the following description of this society: At this stage, when socialism is developing on its own foundations, the creative forces of the new system and the advantages of the socialist way of life are becoming increasingly evident, and the working people are more and more widely enjoying the fruit of their restar revolutionary enion.

It is a society in which powerful productive forces and progressive science and culture have been created, in which the well-being of the people is constantly rising, and more and more favourable conditions are being provided for the all-round devel-

opment of the individual.

opment at the manuscuss.

'It is a society of mature socialist social relations, in which, on
the basis of the drawing together of all classes and social israiand of the juridical and factual equality of all its nations and
nationalities and their fraternal cooperation, a new historical
community of neonle has been formed—the Soviet people.

'It is a society of high organisational capacity, ideological commitment, and conscioussess of the working people, who are

patriots and internationalists.

'It is a society in which the law of life is concern of all for the good of each and concern of each for the good of all.

This is a society of true democracy, the political system of which ensures effective management of all public affairs, ever more active participation of the working people in running the state and the combining of citizens' real rights and freedoms with their obligations and reponsibility to society."

<sup>\*</sup> Constitution (Fundamental Law) of the Union of Soviet Socialist Republics, Novosti Press Agency Publishing House, Moscow, 1977, pp. 13-14.

The Soviet Union is gradually and confidently moving to the great goal, the creation of a classless society. The working class plays a growing role in society and its numbers are growing too. Now the USSR has about 80 million industrial workers who account for two-thirds of the gainfully employed population. The modern workers' character of labour is changing too. being increasingly filled with intellectual content; today 75 per cent of workers have secondary (complete or incomplete) and higher education. Profound changes are occurring in the life of the collective farmers whose work is gradually coming close to that of industrial workers The farmers' cultural standards are growing. Over the past ten years the number of farmers with secondary (complete or incomplete) and higher education has increased from 39 to 60-odd per cent. The number of intellectuals is prowing rapidly in the USSR, Currently every fourth worker in this country does mental work. The classless stucture of society will largely take shape within the historical framework of mature socialism

Intensive economic and social development of Soviet republies serves as the basis for their accelerated all-round convergence. There are no longer backward national regions in the USSR. Tremendous socio-economic changes, in particular in the Central Asian republic, can be illustrated by one fact in regions where before the October Revolution the farmer was immerred in exhausting manual labour, today power-to-farmer ratio per 100 hectares of ploughand is double the wersage in the Soviet Union as a whole. The national feelings and national dignity of very man are respected in the Soviet exouthy. The efforescence and mutual enrichment of national cultures promotes the development of the culture of the Soviet people, a new social and internationalist community. This process is based on equality, fraternal cooperation and voluntarines.

The qualitatively new character of social relations and social action under socialum also determines its specific dislectes. It is not just a particular, transient instance of dialectics as is the case with the dislection of bourgeois society. Socialum does not only have its own specific regularities but, as the first phase of comminism, it also possesses some general features that are ententic to SHARE OF THE SOCIALIST COUNTRIES (1978) MEMBERS OF THE COUNCIL FOR MUTUAL ECONOMIC ASSISTANCE (CMEA) IN THE WORLD TOTAL

NATIONAL INCOME	tapproximately
INDUSTRIAL PRODUCTION	33 per cent ////////////////////////////////////
TEARITORY	18 7 per cert

ECONOMIC DEVELOPMENT OF THE SOCIALIST COUNTRIES, MEMBERS OF THE COUNCIL FOR MUTUAL ECONOMIC ASSISTANCEICMEA!

> SHARE OF THE CMEA COUNTRIES IN WORLD INDUSTRIAL PRODUCTION



POPULATION



the communist social formation as a whole, the highest form of human intercourse.

The socialist form of social relations, social production organised according to plan, on the basis of common, public property and labour of people free from exploitation, predetermine the uniqueness of dialectic of socialism. Its specific features include above all non-antagonistic social contradictions, which stem from the domination of social ownership of the means of production. The social action of the people has a unified and, on the whole, unidirectional nature under socialism This unity underlies the social dynamism manifested in all spheres of social life. The socialist dialectic is further marked by a planned, gradual character and by an increasing harmonisation of social processes Another essential feature is that the subjective factor, people's conscious activity in realising social necessity, comes to play an increasingly greater role in socialist society. The socialist dialectic is also characterised by a boundless, inexhaustible social progress within the framework of the communist formation, Social progress becomes truly nationwide, and humanist ideals and aims are translated into reality

The socialat countres implement broad social programmes with such principal aims as those of constantly rausing people's incomes, improving social security and housing, further developing and improving public education and health, providing the necessary conditions for people's all-round cultural development, rest and leisure, and protecting the environment. The socialist countries have made great progress in these fields.

In his Report to the 26th Congress of the CPSU Leond Brethnes tressed that the working man is the man, involvable wealth of socialist society, which is why 'concrete concern for a concrete penon, for his needs and requirements is the alpha and omega of the Party's economic policy'. This policy is largely aimed at making the Soviet people's life better, at remaining the further growth of their well-being What the worlds to continue the time the social continues and th

assumes a form of differences in the interests of groups of popel on separate questions and a disharmony in separate superior of social life. Under capitalism the struggle of opposites leads a rule, to the victory of one side and the extinction of the othereas under socialism, overcoming contradictions leads (further strengthening of the socio-positical unity of society rule than to an elimination of the existing social structure. An estital feature of the contradictions under socialism is also that cuty as a whole, rather than a separate class or social group, the subject in whose interest the contradictions are resolved.

The specific character of the dialectical Jaw under socials that has been discussed here is also to be found in the ways as means necessary for the resolution of concrete social constitutions. In socialist society there is an objective possibility and secretify to systematically prepare and implement, under the kernhip of the Communist Party, important social reforms as overcome emergent contradictions. The profound qualitant transformations under socialism are wrough by the purposed action of the working masses. While determining the need to resolve a particular contradiction the Communist Tary and the socialist state control the time, rate, depth and scale of the existing the section.

At different stages of development, different methods of selvent ing contradictions are used. In the period of transition from the pitalism to socialism it is quite logical, as we have said, to use force in relation to the overthrown but still resisting bourgroide Since a mature socialist society is marked by non-antagonistic contradictions it does not resort to violence but to other ways of regulating social relations and the struggle of opposites. The struggle of opposites. cial unity, planned economic management and scientifically based guidance of social processes increase the importance of these state measures. These measures create favourable condition for the preparation and realisation of objectively necessary qualitative changes in various spheres of socialist reality. State reform in the fields of economy, culture and social management are our of the principal ways of overcoming socialism's contradictions Alongside reforms and other methods used by the state to inprove social relations, there are also methods which do not in volve the state in bringing influence to bear on social processes Old and obsolescent views, morals, habits and traditions are overcome, for instance, by education and persuasion. Crutcism and self-criticism have therefore acquired great importance in the developed socialist society. They are an effective means of solving non-nationistic contraditions in the cultural, spirtual life of a socialist society, and are a necessary prerequisite for, and a factor in the practical social action needed to overcome the existing contradictions.

the existing contradiction. Non-antagonistic contradictions also bear on other features of the dislectic of socialist society. Thus dislectue is for instance marked by the prevalence of gradual development and the transformation of social phenomena into more mature qualities. Also gradual are the man processes of qualitative change, such as growing over of the state of proletarian dictatorship into the state of the whole people, the improvement of developed socialism and the building of the material and technical basis of communium. Gradual qualitative changes under socialism do not mean any slow-down in the rate of social development. On the contary, the dislectic of socialism is marked by dynamic social processes in all phenes of social life.

#### 9. Negation and Progress under Socialism

The dialectic of the negation of negation also undergoes essential change in socialist society. In an exploiter society with its antagonistic contradictions negation is manifested in an acute class struggle and is most harply expressed in social regulations which Marx described as 'times of strong-paisonate, negation and denial.' The deeper tooid change of the integral intervolution, whose radical nature consists it is ultimately negating private property based on the exploitant of other people and continuous contradictions of the contradiction of the condition of the condition

In socialist society the obliteration of social antagonism and

<sup>&</sup>lt;sup>5</sup> K. Marx, 'Moralising Criticism and Critical Morality'. In: Karl Marx and Frederick Engels, Collected Works, Vol. 6, Moscow, 1976, p. 317.

the end of the class struggle also erase many aspects of negation inherent in the exploiter system. There are no acute manifests tions of violence, negation changes direction, spontaneity is so perseded by consciousness and orderliness, etc. The non-antago natic character of contradictions of socialist society also tells on the content and forms of negation under socialism and on the methods of solving contradictions. At the same time, the ned for negation cannot disappear under socialism either. Here, as elsewhere, negation is a necessary condition for further development Under socialism there are quite a few social elements that thust be negated, which are thus objects of negation. They are obsolescent forms in various fields of vital activity that hamper further progress; conservative left-overs of the past, old habits and customs in people's everyday life, consciousness and behaviour, bourgeois ideology, and so on. Future communist society will also have its own contradictions and will resolve them; in the process of development something will become obsolete and thus become an object of negation on the part of society.

Specific features of negation under socialism will also determine other aspects of the law of the negation of negation. Thus under communism several great cycles of historical development will be completed. In primitive society there was tribal (common) property and equality among people. Later on private property appeared, with antagonistic classes and social inequality, i.e., the tribal system was negated. The victory of the socialist revolution and the building of a communist society, however, again signify the establishment of social property and social equality, i.e., negation of negation takes place. Needless to say, it is a 'quasi-return' to the initial point; even in this process the triad is an entirely superficial and outward aspect of the actual development with its tremendous progress in the productive forces and social culture. The victory of socialism is the beginning of mankind's true history. Opponents of dialectical and historical materialism often present this valid scientific tenet as the Marxists' 'renunciation' of dialectics in explaining social processes under communism Moreover, directing their attention to the triad scheme they often maintain; Communism negates capitalism, but will not communism be negated itself in the future, with a resultant return to a class society?'

We have already pointed out that it is wrong to argue using the abstract triad formula. Why did one formation replace another prior to socialism? Because, firstly, there was an econom ic reason for it, i.e., there was conflict in the very mode of pro duction, between the productive forces and production relations Secondly, the abolition of old production relations was always in the interests of a certain social force, that is the advanced class the subject of negation. The dialectics of progress under communism is caused by the fact that there will be no antagonists contradictions in the communist mode of production, nor could there be any, because the social ownership of the means of pro duction corresponds to the social character of the productive forces and provides all the opportunities necessary for their de velopment. Thus the victory of socialism roots out the econom ic basis of social revolution Consequently, for the first tim in history, the existing type of production relations ceases to be the object of social negation (separate obsolescent elements however, are naturally negated). Moreover, communist society insofar as it is non-class in character, does not and cannot have a social subject that is interested in changing the existing mode of production. This is why communism is also the highest social stage that cannot be negated by any new formation. Thus it is not the superficial triad scheme, but an analysis of the feature of the negation of negation under socialism that makes it possible to bring out the objective trends of historical progress Needless to say, communism is not some absolute state or a con summation of human history. Society will develop according t the laws of dialectics under communistra too. At the same time communist society sets no barriers to its own limitless perfection It is the communist formation that ushers in accelerated social progress, under which the all-round, free development of th individual and the full-blooded expression of his creative force will become the principal feature of social life. It is in this sens that the rise and development of socialism puts an end to man kind's prehistory and ushers in its true history.

# Chapter X PRACTICE AND TRUTH

The life and progressive development of society, whose exertial features have been discussed in the preceding chapter, as only possible with people's increasing control over Nature penetration into its secrets. A wise folk axing has it that isoredge is the best friend. People's knowledge guarantees their deinance over the elements. The acquisition and improvement knowledge is the process whereby man cognises the reality at the properties of the secret of homoledge and purstructure and laws of the cognitive process is called the theory of knowledge or putstruolory.

# The Second Aspect of the Fundamental Question of Philosophy

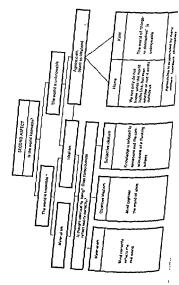
The fundamental question of philosophy, that of the related of thought to being, of consciousness to matter, has, as when asid above, a second aspect in addition to the first ore consessuments). This second offer ore consessuments, and the second offer ore consessuments of the consessuments of the second offer ore consessuments. This second offer ore consessuments of the second of the consessuments of the second of the

Most philosophers have given affirmative answers to the above sporters. However, were of them have argued against the foundating of homeous the world. They are called against the forman's follow-phere hand, for example, recognised the against. The of the real world couside man but maintained that it could not be cognised in principle, for, as he xid, there was an unpassable barrier or gap between a phenomenon ('thing-fir-us', 'Dirg-fir-us', 'Dirg-fir-us', 'Dirg-fir-us', 'Dirg-fir-us', 'Dirg-fir-us', 'Dirg-fir-us', 'Sim Held, his made any judgment about 'things-in-themselves', 'Kant Held, his mind faced insolable contraductions, or antinomes, thus betraying its utter importence. Kant believed that a transition from phenomena to things-in-themselves was only possible through faith.

Representatives of philosophical scepticism, in particular the Bibb-censury English philosopher David Hume, were also agnostics. They denied the possibility of cognising reality, holding that it was altogether doubtful whether something extict outside us, beyond our sentiments. To back up their reasoning, sceptica argued that opposite judgements can be expressed about one and the same object, that man only deals with his own sensations and does not know where his sense perceptions come from, etc.

Advocate of transionalism-Hierosche, Pergono (1805-1911), and others—adopt a stand of overt agrosticsum. They maintain that the world is unknowable because it facks any regularity. Being is a chaotic flow of accidents, an illogical creative evolution, while thought implies logic. Logic deals with regularities, with causes and effects, while real being, the irrationalists insist, lacks them. It is therefore impossible to arrive at reasoned knowledge of the world. Agnostics are led to infer that, in principle, thought cannot to identified with beine.

Agnoticism is widespread in modern bourgeois idealist philosophy. This was particularly obvious at the 16th World Congress of Philosophy. Several reports delivered at it substantiated the thesis that the irrational factor was primordial to man, that 'science cannot think', that it must be supplemented by a religious doctrine of being, etc. Conceptually, agnosticism is a reactionary philosophical doctrine. Socially, it expresses the ideology of the explositer classes trying to distract working people from cognising existing reality. Agnosticism shackles people's cravite activity and initiative. For, if the world is unknowable and science is unable to discover laws governing society's development, then people cannot consciously change and transform reality. Agnosticism was opposed by many outstanding representa-



tives of pre-Marsian philiocophy, both idealitis and materialitis. They argued for the knowed holy of the world. But idealitis and materialitis hold fundamentally different views on this, idealitis assume that true being in by its nature ideal, as it expinising thought. They thus identify being and thought presenting respition as a process shereby the spirit comprehend itself. The objective idealitis, Plato, for one, said that man expined truth through "reculterior." For this purpose, Plato believed, man had to discard all that was corporeal, senual, and had to close his eyes, shit this ears, and withdraw into elf-observation to try to "recall" what his immortal soul had allegedly experienced in the true would of ideal.

sure woint of tietas.

Similar views on cognition are to be found in the idealist doctrine of the Vediatia school (4th century B. C.). According to this, there is only one genuine object—Braham. It can be cognised only through constant yoga exercise By discarding all that is earthly or celestual, by constantly improving the ability to pacify the soal, by suppressing emotions, curbing passoons and educating patience, concentration and other fine qualities, Yogis awaken in themselves an irrestibile desire to free their own minds This results, as Indian idealists have taught, in the barth of perfect knowledge. The compilior of Brahman upross all inits.

In Hegel an affirmative answer to the question of the identity of thought and being was also self-evident: in the real world we cognise precisely its intelligible content, insofar as reality itself is reasonable. In the final analysis cognition is a process of the self-consciounces of the Absolute Idea.

Since for idealists, when they give a positive answer to the second aspect of the fundamental question of philosophy, true knowledge is only cognition of the Absolute, idea, Brahman, and so on, their critecism of agnosticism is not consistent. Idealism and agnosticism are evidently related to each other. Agnosticism can only be fully and conclusively refuted from the standpoint of materialist behilosophy.

For idealism thought and being are indentical because being itself is interpreted as something ideal. For materialism, however, the answer to the second aspect of the fundamental question of philosophy stems from the principle of reflection. Thought is identical to being only in the sense that it reflects it. As its reflect-

tion, thought is secondary to being, to matter. The identity of thought and being can therefore only be referred to in the epistemological sense, i.e., on the plane of the knowability of the world. The 18th-century French materialists, Feuerbach and other philosophers, affirmed their belief in the power of the human intellect and emotions. But the theory of knowledge of pre-Marxian materialism was circumscribed by its contemplative character. The pre-Marxian materialists were unable to fully understand the active quality of the human mind. For them, man was destined to only a passive perception of outside influences. Moreover, they only took an isolated individual as the subject of cognition and disregarded the socio-historical nature of man's consciousness. The very process of reflecting reality was interpreted by them in an extremely one-sided way, as an immediate, direct and mirror-like reproduction of the essence of objects in human consciousness All these flaws can be derived from the main one, the pre-Marxian materialists, as well of course, as all the idealists, failed to understand the decisive role of socio-historical practice in the process of cognition.

#### 2. The Determinant Role of Practice in Cognition

Pre-Marxian philosophers usually contrasted cognition with people's material activity and social action. They treated engine tion as a purely subjective search for truth, as a near propriet of inquisitiveness which was not conditioned by any actual product of inquisitiveness which was not conditioned by any actual product was mainly tackled in theory. And though theorits produce quite convocing arguments against agnosticins in the purely active control of the work of the product of the product of the work of the product of the work of the w

Prople first related to the world in practical terms by actively transforming at to meet their material needs. Only through a material interaction with nature could they form a theoretical artitude to it. In altering a substance to produce definite object or tools man had to differentiate the specific properties of stone, wood, metal, etc. at the early stages of his hustory. Thus reality was cognized and Low-ledge of it acquired in the direct labour process. Consequently, knowledge arises from practice and develops on a practical basis. The standpoint of life, of practice, should be first and fundamental in the theory of knowledge, wrote Lenin, The requirements of social practice have always been the basis, the motive force, and the source of the development of knowledge. The need to measure areas of land, to determine the capacity of vessels, to calculate time, trade accounts, etc. has stimulated the development of mathematical knowledge. The need to build house, channels, dams, thips and other means of transport, to produce equipment for lifting things and for other uses, weapons, etc. has stimulated the development of matchanic.

In our day, too, practical requirements determine the development of scientific knowledge. This is quite evident in mathematics, a science exhibiting a clear tendency to improve its ideas through its own inner logic. The need to transfer information via communication channels has given rise, for example, to a new science, the theory of information. Having arisen on a practical basis, this theory has itself influenced several classical fields of mathematics, such as the theory of functions, the theory of probability, etc. Modern industrial production and the design of new structures, geodesy, economic management and so on, require a tremendous amount of calculation, and electronic computers were invented to meet this practical requirement. The use of computers has given rise to many new trends in mathematical research, such as the programming of computing and logical problems for computers, the theory of automata, the theory of algorithms, and so on.

Practice is not only the starting point and basis of cognition, but it is also its aim. Man cognises the laws of nature in order to subjugate it and turn it to his service. Knowledge of social laws is necessary for him to influence historical events in the interests of the working masses.

<sup>&</sup>lt;sup>3</sup> V. I. Lenin, 'Materialism and Empirio-Criticism', Collected Works, Vol. 14, p. 142.

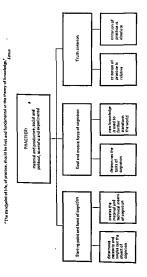
What is the concept of practice as understood by dialected materialism? This question is important because many ideals philosophers use the term 'practice' or 'experience' to cannodize the essence of their doctrines. Subjective idealists interpret practice as man's sensuous experience. For them, things only crisis the subject's experience, and experience in only the sun total of sensations, a complex of elements in man's self-conciousnes pragmatist philosophers. According to pragmatism, practice in pragmatist philosophers. According to pragmatism, practice, of the chaotic flow of consciousness and people's feelings and employed chaotic flow of consciousness and people's feelings and employed and physical world, but in the subject's inner world. Pragmatism aparticular instance of subjective idealism, construe the series aspect of human thinking as an absolute, which is typical for dealism in general.

A scientific concept of practice is the outcome of a matribsis solution to the fundamental question of philosophy. Third are not created in one's experience, but are cognised threely reflecting reality in practice. Practice has a concrete, historial character, it is the purposeful, object-material activity of manengaged in changing the objective world that exists independently of his consticuousnes. Practical action differs from spiritaly neutral action (logical operations, fantasies, prayers, etc.) in the it presupposes (a) mars material conduct with natural object, overly or objectively forms of relations between people; (b) the expenditure of a certain amount of physical energy alongles mental energy; (c) the coordination of the programme of action with the easence and properties of the world, nature or society which are changed in the course of this activity.

winth are changed in the course of this activity.

Thus, above all, practice incorporates man's material-productive activity, which is the main and determining aspect of perple's activity in general. It is their work in industry, agriculturtransport, communications and other spheres of material production. There basic kinds of practice also include social production. There basic kinds of practice also include social production, the class kinds of practice also include social production. There have been considered to the control of the
popular masses, the national liberation movement, the "school" of society and the building of communities, the

# ROLE OF PRACTICE IN THE PROCESS OF COGNITION



struggle for peace, and the peaceful coexistence of states with differing social systems. Apart from these basic types of practice, people's practical action is expressed in specific forms in various spheres of activity. In science, for instance, as opposed to the retical knowledge, practical action includes experiments, astronomical and other observations, and geographic and geological discoveries. Practical activity is also a characteristic of medicine artistic work and everyday life.

The sum total of all this action, at the basis of which is people's activity in material production, and which changes in the course of history, is called the socio-historical practice. While adoping the standpoint of life, of practice, dialectical materialism of or a fundamentally new understanding of the essence of the cognitive process.

# 3. The Essence of Marxist Epistemology

Pre-Marxian materialism, as we have noted, was contemplative. It regarded human knowledge as the passive reflection of objects and processes occurring in the surrounding world. Dir lectical materialism, on the other hand, treats knowledge as a pecessary component of the socio-historical process of mastering nature and improving relations between people. The subject of our knowledge is not so much nature as it is, 'in the raw', as as ture transformed by human activity. And only by cognising as ture as it has been transformed through practice, is man able to cognise phenomena lying outside his direct activity. Cognition must here be understood as a predominantly active, dynamic process. It is not a matter of nature simply influencing man, who contemplates passively, but of a subject that acts practically, and uses the elemental forces of nature consciously and purposefully and in this object-oriented, material process, cognises natural structures and laws. Moreover, it is essential to note that office tion does not limit itself to the cognitive activity of individuals but results from the combined efforts of the whole of manifell Historical practice, constantly being enriched, series as the bass for the growth and extension of our knowledge of the objective world of nature an discriety and the degree to which our knowle edge corresponds to the actual essence of the world-



thenticated (guesses, hypotheses), or true. People have abort striven to attain true knowledge. The old wise saying, 'Knowledge is the greatest treasure, it cannot be taken away, it is inexhautile and beyond value' is true to this day.

# 4. What Is the Truth?

Man has pondered this question since time inumenorial has always been the centre of philosophical debate. An unit standing of what truth is it asseparable from the solution to fundamental question of philosophy. The dialectionnateric solution to the problem of truth is based on the theory reflection and differs from various idealist conceptions. It is ab different from the interpretation of truth given by metaphysic contemplative maternalism.

Exponents of objective idealism interpret the truth as an affibute of ideal being—the spirat, idea, or God—per sr. According for instance, to Plato's theory of cognition as the recollection the soul of a world of ideas, the truth is a supernatural, index dently existing ideal essence, the 'truth-in-inself' is a well-ideas, and human knowledge to only true according to the sevent to the soul stan communion with this 'other' would of idea the soul stan communion with this 'other' would of idea the soul standard to the soul standar

Objective idealism thus considers the truth to be irrepred of the reflection of the world that taker place in main operations are intensity of the relation to an object, but as an inherent quality of the relation to an object, but as an inherent quality of the relation to an object, but as an inherent quality of the relation to an object, but as an inherent quality of the relation to make the property of the relation to the relation of the re

Subjective Idealists also incorrectly interpret the problem of truth. In denying that the outside world exists independently of man, they ignore any objective content in our knowledge and connect truth exclusively with the properties of consciousness regardless of the process whereby reality is reflected. There are various subjectivist concepts of truth. Some regard as true that which is generally meaningful, i.e., that which accords with the opinion of the majority. Others see truth in what is thought of in a simple or economical fashion. Still others consider as true that which agrees with other judgements in a given system of statements. And there is an interpretation of truth as that which is useful. All these interpretations characteristically deny the existence of an observier truth.

Here the truth of judgements is wholly determined by the subject and depends on him. For example, the majority of people may share religious beliefs, but the latter do not become true because of this. Similarly, simplicity cannot be elevated to a criterion of truth. It is simpler to conceive of an atom as indivisible than divisible and having a complex structure, but the former view is not true in the light of modern science Furthermore, one can well imagine a system of propositions each of which would agree with the others and not contradict them, but which does not contain the truth and is an arbitrary logical construction. As for the thesis which states that that which is useful is true (a conception propounded by the bourgeois philosophy of pragmatism), its subjectivism is self-evident, because it immediately begs the question who will profit and who benefit from a particular judgement. It is easy to prove from the pragmatist standpoint, for instance, the 'truth' of any superstition or mysticism, insofar as they are of use to the reactionary classes.

# 5. The Objective Truth

Both subjective and objective idealists regard truth as an internal property of consciousness According to dialectical metatialism, however, cognition as the reflection of reality in the process of its practical transformation by man. The knowledge which correctly reflects this reality will therefore be true. A distorted reflection of reality, on the other hand, gives rise to effortered reflection of reality, on the other hand, gives rise to get Le, to an uniture knowledge. Truth is thought that correspond to reality. This means that our knowledge includes a correct that does not depend on the subject, printer on the individuanor on mankind. Truth as thus always objective.

Recognition of the objective quality of truth express the materialist solution to the second aspect of the fundamental question of philosophy, our notions, concepts and theories are of true insofar as they have an objective content that does not depend on consciournes. The truth of particular views is deermaned by the properties and natural laws of the objective railar reflected, rather than by man's with or subjective opinion. So matter how many times, for example, bourgeois ideologists any personnence the Markitt teaching of the class struggle to outdated, it nevertheless does not cease to be an objective truth For modern capitalist society is also marked by an anapo-nium of class interests determined by the domination of private

property and human explostation to year domination. Pre-Marxan materialists also recognised the objectivity of truth. At the same time, they treated truth metaphyrically in arguing that the same time, they treated truth metaphyrically in arguing that it content evaluatively covers reflected reality. Unlike the old maternalism, Marzust-Leninist philosophy regards the must as domination of the contract of the con

#### 6. The Relative and Absolute in Truth

The foregoing discussion prompts us to take up the problem of the relation between absolute and relative truth. If objective truth exists, then how is it to be cognised? Can human ideas express the objective truth immediately, wholly, unconditionally and



declare that materialism and idealism, science and me, cialist and bourgeois ideas, etc. are equally me, is science does not give fundamentally different ansens to the same problem it has solved. There is one sciencial the same time, false and incorrect views of a particular property of the property of the same time, false and incorrect views of a particular property of the property of the

In contrast to dogmatism and relativism, dialectical in may vary widely. ism recognises a unity and opposition of absolute and reliments in true knowledge. What is, then, relaine man knowledge that approximately and incompletely ran objective world. At any stage in socio-historical practice. knowledge is relative by virtue of its being limited and inco But relativity of truth does not only apply to man's or knowledge at a particular stage in the development of it is also a quality of any objective truth considered spir scientific theory, true propositions and so on. In this case tivity of the truth consists in its being inaccurate, in the limitations on our knowledge of specific phenomena, pr connections between them, etc. Any truth (e.g. a parties entific theory) is relative in the sense that it, first, does wild a first and vide a full and exhaustive knowledge of the area studied theory. Secondly, the truth (in our example, the strength incorporates such elements of knowledge (e.g. concept, ? tions and hypotheses) which will be changed, and replaced by new ones. At the same time, relative troth, of ror, has objective content and to a certain extent spiles respondence between thought and reality. Therefore, it something absolute.

What does not all the continue that all the continue that a sensetimes happens that absolute must be reshautive sometimes happens that absolute must be reshautive sometimes happens that absolute must be object too ment. Yet since the objective world is distincted and time, and time, accountantly developing and changes of an area containtly developing and changes of an area of human howledge must the follow that all the containts and the containt of his containts and the conta



declare that materialism and idealism cultist and bourgeons ideas, etc. 27 science does not give fundamentally the same problem it has solved. The same time false and income may vary widely.

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the objects and phenomena of the outside world must be a using of multiformity, rather than a reflection of any one agent of them. Any object of material reality possesses a wall of properties and connections with other objects; moreover, it does not only have qualities common to many other things, but is always to the contracterised by unique qualities. True thinking requires that are count to taken of the multiformity of qualities and charged in reflected reality, and that the specifies of the process in question be brought out. Only in this case does the truth become concrete.

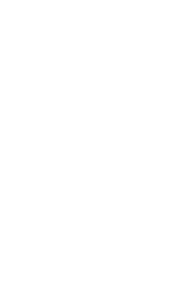
The concrete quality of truth is of enormous importance in the practice of revolutionary struggle. As applied to the unstanding of Jawa governing the transition to socialism, this recrete quality is the knowledge of how the general is expressed in the particular said of how the particular inclif deepen and exities the real dialectic of life. The concreteness of truth is a serious approach to revolutionary action. This assain stressed in the Main Document of the International Mering of Communitat and Workers' Parties: "Each Party, full by the principles of Marxism-Leninism and in keeping with cortex analonal conditions, fully independently elaborate in each policy, determines the directions, forms and methods of struggle, and depending on the circumstances, chooses the portful of non-peaceful way of transition to socialism, and also the form and methods of building socialism in its own country."

## 8. Practice Is the Criterion of Truth

The concrete nature of truth gives more evidence of the determining role of socio-hustorical practice. Practice is not the hais of the cognituse process, but also the decisive relevaof true knowledge. How can we separate truth from error is orknowledge? After all, 'the strain of truth flows through in this ne's of mutaken'. The ideality philosophers seek the criterion of truth selely in the sphere of the ideal, within not consistent.

<sup>\*</sup> International Meeting of Communist and Workers' Parties March, 1963, p. 57

<sup>\*</sup> Rabindranath Tagore, Sray Birds, London, 1926, p. 63.



ingly unequal economic and political development of capitalism at the monopoly stage.

While noting the tremendous importance of practice as the criterion of truth we must also point out its contradictories. this criterion is both absolute and relative. It is absolute inclu as there is no other criterion which can establish the truth or fibe hood of the results of human thought. It is also absolute because practice can prove the absolute truth. When knowledge is book out by practice it is true not only objectively but, within certain limits, also absolutely, and is not amenable to change within the limits At the same time this criterion is also relative. This is expressed, first, in that a particular, isolated act of practice clearly insufficient to prove conclusively the truth or untruth a particular piece of knowledge. Secondly, practice is fimited by the specific historical stage of the development of industrial technical and experimental means of influencing the object at each point in time. Human activity is continuously developed

in all its forms. Therefore practice, as the criterion of truth should be considered, as should the process of cognition as a whole, in a historical setting—in connection with a definite ked of production, of technology and scientific experimentation and in connection with the relevant social relations and people's rial acts.

The continuous development of practice prevents our laws edge being turned into some complete, unchangeable dogna. At the same time, the absolute nature of practice as the criterion of truth makes it possible to distinguish objectively true harms

edge from delusions, errors and groundless fantasies. Now we can take up the dialectic of the cognitive process.

ection of reality in man's consciousness is a process ich true knowledge is formed and deepened It is a ad contradictory process. It is effected in the interacintellectual and the practical, the subjective and the he sensuous and the rational.

## he Truth Is Cognised

l begin with an example. In 1934 P. A Cherenkov, a viet scientist, discovered the luminescence of pure liqr the impact of radium gamma-rays. This phenomenon d the Cherenkov effect The effect was discovered periment and through observation several of its prope determined, among others its clearly expressed directral composition and character of polarisation. It was to explain the essence of the new phenomenon using irical means. What was needed was an in-depth theorey of the experimental data. The theory of the Cherenkov is developed by the Soviet Academicians I Ye. Tamm Frank in 1937. All three were awarded the Nobel Prize Theory demonstrated that the luminescence was caused ons. When an electrically charged particle is moving in m (not in a vacuum), with a velocity exceeding that in it, this particle itself emits light which diffuses as a ose axis coincides with the direction of the particle's The angle at the cone's apex depends on the particle's velocity and on the refraction coefficient of the medium for the given wave length of the light emitted.

Many experiments have fully borne out Cherenkov's reals and Tamm and Frank's theory. Since the refraction coefficient as well known for different media, or can easily be measured, well known for different media, or can easily be measured, the Cherenkov luminescence effect has become a good way of memoring velocity and even the direction of fast-moning particles. Simulation for the desired particles, with the help of the Cherenkov counters. They have placed an important role in the decovery and study of various new elementary particles (assurption and others). Cherenkov luminescence is a powerful instruction that yield high-energy particles. Cherenkov counters are intalled in artificial Earth satellites and in spaceships to study the flow of charged particles of sonce radiation.

This example well illustrates the general process by which and cognises the world 'From living perception to abstract should cognises the world 'From living perception to abstract should compare the process of the should be path of the cognition of truth, of the cognition of objective rubin.' Man's living contemplation, based on practical activity, pears as sensory and empirical knowledge, the former bees rembodied in a specific cognitive act and the latter in skentile in vistigation. Living contemplation is the direct source of knowledge, Sensory information is given meaning at the stage of a stract thought (in science—at the throught direct should be stract thought (in science—at the throught contemplation is the stage of the stract thought of the stract throught of the stract thought of the stract throught of the stract thr

### 2. Sensory Knowledge

Sensory knowledge is the reflection of reality through the gene organs; visual, auditory, tactile, olfactory, and gustatory. The sense organs are the only channels through which information

V. I. Lenin, 'Comportus of Hegel's Book The Science of Logic's Collected Works, Vol. 33, Moscow, 1977, p. 171.



that it is, as it seems to them, impossible to coguise the well using these sensations. They declare that sensations are impressive to the sensation of things rather than their image. It bygress sometimes, of course, that sensory knowledge turns out be erroneous because of the subjective character of perspective forms of the subjective character of perspective stands or a mussel for a silver coin. Does it mean, howers, this we must always distrust our sensations and only assess them a kind of hieroglyph or sign which requires special declaration.

There is an important epistemological difference between sign and image. Any object can become a sign if invested with meaning A sign is thus the result of a convention or agreenant Signs may be divided into indices (features, instruments, rest ings), iconic signs (schemes and drawings), symbols (embless coats of arms, etc.) and linguistic signs (those of natural sal artificial languages). So, a sign is conventional in churaff while an image results from reflection. An image is therefor always akin to an object reflected in some respect. A sign denot usually have such a resemblance. An image presuppose to existence of what is reflected, while a sign may express the does not exist. Finally, an image carries information aled the object, while a sign does not contain direct information about it. This explains in particular why it is so difficult to decipe the written characters used by ancient peoples whose language is unknown to science

It follows from this that to consider sense perception in the social ways as a characteristic of the exponents of the social whose of the social ways of the social w

tion and thought, as well as with north practical activity.

Servation is thus an image of the object rather than 11/2 stray up. While one can return the sign theory of seasons is tendency towards agnosticism, it is at the same time in-cent

### of Abstractions

m, are the features of cognition at the stage of ight? Sense perceptions of separate objects and their nd their reproduction in representations, are still incognising the objective world. Sensory knowledge a sense: it reflects the inessential, as well as the esres of things in one complex; it encompasses only the are directly perceived by people, and it reflects the ather than the general. To discover general connecniformities one needs the activity of thought. It is ught that a transition is effected from reflecting the operties of objects to cognising internal and general between phenomena, their essence and uniformities nition is direct reflection while thought is indirect, gnition. In other words, sense perceptions are the inlink between thought and objective reality. Morean cognise many phenomena by communicating with e and by assimilating their knowledge and experience guage. Abstract thought is closely connected with language, and cannot exist without them. Thought is ognition also in the sense that cognition is here effect-

Inference.

thought is not only mediate; it is also an abstract and reflection of reality. The process whereby a number of ies of an object and the relations between them are and the property or relation we are concerned with is, or identified, is called abstraction Man's thought is existly because it operates with concepts developed as a

c, or identified, is called abstraction Man's thought is exisely because it operates with concepts developed as a bitraction. Any abstraction also contains at the same tain generalisation. The abstraction of identification, (e, helped form such concepts, among others, as 'man', commodity', 'revolution', 'socialism' and 'capitalism'. The abstraction of isolation underlies such concepts as fundness', 'whiteness', 'kindness', 'cruelty', 'democracy', and others So-called idealisation is often used in scientific knowledge with an object is taken in its 'pure form': 'a point' (i.e. an object without extension), 'line', 'ideal gas', 'ideally elastic bod', ee There are also other kinds of abstraction. The process of abstraing and generalising is based on the mental operations of and ysis and synthesis. The former is the disjunction of an interest object into its components—its properties and aspects—and the mental singling out of its separate features. The latter is a metaod of mentally combining the elements and properties of the elements. iect under study.

## 4. Forms of Logical Knowledge

The main forms of abstract, or logical, thought are concept judgement and inference. Concepts reflect the esential and grant eral features of objects and phenomena, Numerous references of the of the essential features and properties of objects and artists in man's practical activity lead to their being consolidated in his consciousness and fixed as concepts. The nature of the content historical practice of the people concerned determines the content of these concepts For example, the languages of Northern peoples have up to 40 words denoting various kinds of sport while the same concept held by Southern peoples Licks such be tail Concerns. tail Concepts become richer in content with changes in partition and the practice and the deepening of the cognitive process. This was the case, as we have seen, with the concepts of matter, the aben, as so on New concepts which record the results of markind's prothat and cognitive activity are constantly seeing the light of dain soviety Modern man has assimilated such concepts as her nik, acceleration, 'neocolonialism', 'military-industrial ples, 'nuclear war, 'inflation', 'detente', 'existing socialism', 'stillit corentation', realist orientation, 'non-aligned movement, 'antipartie's 'geres', 'quatars', 'green revolution', 'ecological crist', and gives A granine and effective reflection of reality requires that energian about inverse that every run should master scientific concepts and be able to best out the connections between them that keep changing is the tone of mulabores at practue



In all cases when intuition is at work, it is conscious study based on knowledge and experience which is instrumental in formulating new ideas and discoveries regardless of the creates as the content of the content o

### 6. Epistemological Causes of Idealism and Agnosticism

We can now see that there are many facets to the process of attaining the truth, Only through the complex and contrader ry interaction of all the elements of the cognitive process on reality be increasingly accurately reflected in man's constitutions Disregard for any of these elements or, on the contrary, etc. ation of the importance of one element and contrasting it we other features of the process of cognition inevitably leads to the tors and delusions. It would be appropriate here to turn to the reasons for the existence of idealistic views, It was pointed of earlier that idealism is a philosophical doctrine of vital concerto various reactionary forces. But idealism is alive not call because it is supported by the exploiter classes and reschearies. Apart from social causes idealism also has epistemologial roots lying in the peculiarities of the cognitive process, while the standpoint of dialectical materialism..., wrote Lenin, philesophical idesophical idealism is a one-sided, exaggerated ... development (or flation. flation, distension) of one of the features, aspects, facet of knowledge interest. knowledge into an absolute, divorced from matter, from name, apotheosised. .. Rectilinearity and one-sidedness, woodeness and petrification, subjectivism and subjective blindness would be epistemological

epistemological roots of idealism.<sup>11</sup>

All varieties of idealist views arise from the absolutisation of V. I. Lenin, 'On the Question of Dialectics', Collected Wesls, V. I. S. p. 361,



one of the cognitive elements. Sensations constitute the sorm of our knowledge. But they contain much that is adjected Exaggration of this circumstance can lead to the libelation clusion that things only exist in our sone preception, a sense that the subjective idealists. Objective idealists, on the other hadmake an absolute of the inherent capacity of thought to four generalisations and disorce concepts from reality, turning has into self-contained entities that are independent of the objects world.

There are also epistemological reasons for agnosticism. One of its forms, scepticism, is brought about by the most exaggration and inflation of the moment of doubt. Opposed to knowledge and rejecting objective truth, absolutised doubt about the stand taken by extreme agnosticism. No less erroccos is the absolutions of initiation Adherents to the philosphy of irritionalism contrast it to logical thought.

The epistemological stand of dogmatim is formed when all The epistemological stand of dogmatim is formed when all traces of doubt are bambled from consciousness and, report traces of relative truth, the moment of faith is made not an absolute. Dogmatic, unreasonable faith deprives thought its creative and active basis, prevents the timely bringle got and correcting of mistakes and delutions, makes people passes and correcting to the best of the properties of the contraction of the properties of the contraction of the contrac

In the history of philosophy both sensulists and rationalists always drew a distinction between the sensuous and legical always drew a distinction between the sensuous and legical poets of the cognitive process. The sensulation underestimate the role of thought and held that thought could be contain anything except sensations. Such views were held, see example, by the Englah materialist philosopher John Lock (1632-1704). Rationalists, on the other hand, disregarded the data of sensory know-ledge. Rationalism grew, in epittemolegical terms, from the absolutiation of man's alikity to arrive a new knowledge by means of inference. Hegel was a prominent rationalist.

### 7. Theory and Practice

Man's strength hes in his authentic knowledge. Yet to know is not enough, one must also translate this knowledge into prac-



# Chapter XII THE PRINTES ALBERTHOD OF SCHOOL AND SOCIAL ACTION

The results of the cognition practice are fined, at the legal throught taken on the form of procepts reflecting the neutral properties and features of the phenomena of the electroworld. In these practical activities and differ here projet we setions remorging, above all those of recorder speech and as those towns encountry, above all those of recorder speech and as the special control of the electron of the electron of the register world to various according to the encountry of the feature in planta, speech and agree in believe, when and coultered to the electron of the electron of the electron of the categories in an electron of reality.

# 1. Categories of Dialectical Thought

Categores are plabsophical concepts expensing to execute properties of and the most general relations and level on meetions between objects of the objective wide. The differ form all other concepts in their universal appearance are not of people's thatlong activity. Different categories are not of people's thatlong activity. Different categories are not of the people of the peo



tween the reproduction in the categories of the objectively esential connections and the relations between real phenorems is growing. New categories come into being, which pinpoint the earlier unknown aspects of matter in motion.

In particular, a correct view of the problem of canalar is of great importance to man's practical action. The lish between cause and effect is a most essential and multiform relaise between things. In materialist dialectics, the category of cause opresses a) the objective character of objects' actions upon earnother; b) the genetic link between phenomena, i.e, cause necessarily produces an effect; c) the irreversibility of cause action, i.e., a phenomenon as a cause cannot be the result of its own effect; d) the temporal sequence of cause and effect.

Recognition of the objective and universal character of causality does not rule out the possibility that relations between various phenomena and events may be of different orders are cessary and accidental. The category of necessity expression regid connection between phenomena; when such a correction exists it is always obligatory; a necessary phenomenon invariably unfolds in a definite order and occurs unumbiguous invariably unfolds in a definite order and occurs unumbiguous moreman which are ambiguously connected. That is accident momena which are ambiguously connected. That is accident which can occur in this or that way. As distinct from a city of the control of the c

Insofar as objective reality appears as the unity of necessity and chance, other categories have also been developed in white the control of the control of the control of the categories of reality and possibility, essence and appearance, the universal and the individual, content and form Thus, in a narrow sense, the concept of reality covers phenomena and processes that exert real influence on ongoing exemants. In fact, all that actually exists (as distinct from imaginary of possibility records incipient trends towards changes in real phenomena that can only be realited under appropriate or

developed, a distinction is drawn between abstract and real powellatins.

Objects and plenomens of reality appear as rotems of different characters and levels, i.e., as totalities of elements connected in a definite way. This crimitation is also reflected in the cargories of content and form. The former records the integral set of all the ecceptions (elements, aspects, connections and relations) computing a particular thing and interacting with one another. The category of form expresses the mode of existence and structure of the content, and the way in referents interes.

Alongside the categories of form and content, an important role is placed in the cognitive process and in practical action by the concepts 'essence' and 'appearance'. Essence is a cateresy denoting the internal basis of a thing, the rum total of its

dition. Depending on the extent to which these trends have

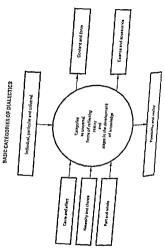
stalle, reveral, necessary and determinant properties and relations On the contrart, the category appearance is something individual, changealde and largely accidental It incll owes in existence to the internal features of an object.

An insight into the categories of essence and appearance requires an understanding of the interconnection between the concept 'universal' and 'individual'. The former category denotes an essential property or internal regularist, which is inherent in many or all things. The individual denotes the totality of features belonging to a given object alone. The individual distinguishes an object from all other objects. It is through that that it appears as something particular or separate. However, there is nothing that it absolutely isolated in the world; part that it is done that the world; spart that it is done the world; particular or separate.

tains properties that are common to a multitude of other material formations.

The qualitative variety of objective general uniformities and their increasingly accurate reflection in scientific cognition brings about an internal connection between and development of the categories of thought. The general laws of reality are formulated from the relationship between the different cates

from individual features, any particular thing therefore con-





rigid material substance (Spinoza), and so on. Such approaches made 'ontology' an out-and-out metaphysical doctrine.

The approach of most pre-Marxian philosophers to the exnition of the world was just as undialectical. In epistronly, metaphysics was evidenced in the one-sided approach cannot empiricists and rationalists, in the relativisation of the cope process, and in dogmatism and contemplativeness. As for legithe third component of pre-Marcian philosophy, it here only one kind—formal logic.

Formal logic studies the structural side of thought, describing the simplest logical devices and demonstrating the rules by which certain judgements are deduced from others. What is more, it abstracts the various forms of thought (concepts, judgements and inferences) from their development in time, from some defnite, concrete content. The laws of formal logic express the essential link between the ideas formed within one and the same judgement. Its basic laws are a) the law of identity ('Every thought about a thing must remain unchanged throughout given reasoning: A is A'); b) the law of contradiction ('if of two judgements, one affirms what is negated by the other, one must be false A cannot be B and not be B at one and the same time'); c) the law of excluded middle (Where there are two judgements, one of which affirms what is negated by the other—A is B and A is not B'—there cannot be a third, middle judgement); d) the law of sufficient reason (It is necessar) to think on a sufficient reason'), ie, every idea, every judgement, must have a defined logical basis Insofar as all phenomena of the objective world are relatively stable and definite the servance of these laws is a prerequisite for correct thinking At the same time, comphance solely with the demands of formal logic is clearly insufficient to cognise reality, which is changing and conceptually varied. Formal logic itself, like any science, is not metaphysics, but the absolutisation of its propositions and laws in pre-Marxian philosophy served as a basis for the metaphysical method of thought, for a theoretical justification

of metaphysical views on being.

Hegel was the first to attempt to find another approach to the correlation of ontology, epistemology and logic and to over come the earlier gap between them. But Hegel proceeded from





states have achieved the heights of progress, social wealth ast culture. Does it follow from this, however, that the socialist ast imperialist countries are similar and can be considered togethe as one group as indicated by their wealth? Surely the mais than is not how rich this or that country is, but how it has become rich and how fairly its wealth is distributed.

The source of the capitalist monopolies wealth liet in the merciless exploitation of wage labour, in plundering the weaking people of former colonies. At the turn of this century, for earniple, Britain appropriated up to 25:30 per cent of India's actional income. In the beginning of 1981, the decleping centure's foreign debt exceeded 400,000 million dollars. As to the distribution of wealth in capitalist countries, here is one cumple: A mere five per cent of US population appropriate \$5 per cent of all shares.

Now let us turn to the socialist countries. The people of the socialist countries have created their wealth and improved their weell-being through their own efforts, through the selflest labor of their workers, peasants and socialnt intelligentia. The Gor stitution of the USSR says: The source of the growth of self-widual, is the labour, free from exploitation, of Soviet people, socially useful work and its results determine conditions in society. (Art 14) Socialism creates all the conditions in society. (Art 14) Socialism creates all the conditions in society. (Art 14) socialism creates all the conditions described in the condition of the conditions o

Kazalhstan and Central Asas were the backward outland of starins Russia. After the victory of the socialist revolution modern industry was built in these areas on an upto-date testical basis in a short period of history and one hundred per endiferency has been achieved today. Almost half the population has had secondary or higher education. The Soviet Central Assa republics now train more specialists than such developed tepic tallst countries as Britain or the Federal Republic of Gensappears.

We can see, then, that the concept of rich and poor national distorts the image of the modern world. The bourgeois theoreticians and Maoists are trying to conceal the main contrade-



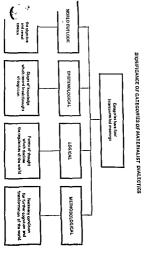
verge into a 'single industrial society' which will 'synthesic' ite positive aspects of socialism and capitalism. But convergence is an illusion. Its proponents want to retain the praciple of brings, many find other food, aspects of calutating and a brings, many find, aspects, such as social antagonism, the anarchy of production, the class struggle, and others it is exe-

ticism pure and simple For all the bad aspects of bougests society are an inevitable result of the-according to coatist ideologists—'good' aspects. It is private property in the mean of production that engenders the exploitaion of man by man class antagonism, unemployment, economic crises and oter 'had' features of the capitalist system. As for socialism, it pre-

supposes a highly developed material and technical has but as we know, is by no means reduced to it. Socialist relations are based on the social ownership of the means of production. They rule out the exploitation of man by man and are expressed as the planned, proportionate development of the economy, so that the material and spiritual requirements of members of society are met to the maximum. In providing social equality and unity they create all the conditions for the all-round development of the individual. Essentially, such relations can only and once the capitalist form of property has been abolished.

The idea of 'the plurality of models of socialism', upheld in bourgeon literature, does not hold water either. Of course, so cialism in each country takes on its own particular character is solving, for instance, the agrarian question, in its methods of establishing proletarian dictatorship, and the forms it may take, etc. Revisionists, however, sophistically inflate these national and historical features characterising different ways of building

socialism and even advance a thesis of the existence of models of socialism' that differ fundamentally from one another, such as the Soviet, Yugoslav and Czechoslovak models. This idea of ten takes the form of the conception of 'national socialism' on a religious basis ('Islamic socialism', 'democratic socialism on Gandhiist principles', etc). In all such concepts the particular is incorrectly contrasted to the universal. The truth is, howers, that the universal and the particular are dialectically interconnected. There are general uniformities in the development of revolution and the building of socialism, and a deep understand-



orgist these unit courses and a relative on them, control out a service approvate and a constraine of the space remininger of rach entury, have always been an incerne trainer of Margaits Lemmits Such general uniformer unite be integrally and the manhing turners by the weating thing leaded by the bostonerist party in acceptating the processing the edution and establishing the thats tolky of the printered in were hero, the absence of the meeting class with the land of the presenter and other strate of the working proper the slohimes of capitalist perposty and the establishment of stud restorship of the base means of production; the gradual transfer thatset of agriculture on sexualit lines; planned economic detelephient ained at building acculum and commission taining the living standards of the working people; a section to visition in ideology and culture and the creation of a smire intelligentia loyal to the working class and all working peace and the cause of socialism, the eradication of national opporson and the establishment of equality and fractual fractual among peoples, the defence of socialism's gains from the cr croachments of external and internal enemies; and professional internationalism, i.e., the solidarity of the working class of a particular country with the working class of other country.

These examples show the morking class of other community with the requirements of dialectical logic to gain a correct understand of reality. This also fully applies to the interrelationship keyer philosophy and the special sciences.

## 4. Natural Philosophy and Positivism

In the history of cognition philosophy and science rails if a single intellectual process whereby man comprehend soft the reality of forms his own world leve, a process based on social practice of the relationship between photophysiciance has eshabet the relationship between photophysicians a state of the state of t

to banch off from this single science and hence from philose phy. This differentiation of knowledge is continuing and ever peeding up today. At the same time, in our age the opposite indexp can be seen all the more clearly, the integration of science, evident in the formation of various borderline region of knowledge (physical chemistry, geochemistry, biophysical cle,) in the appearance of several general scientific disciplum [c]sernetics, general systems theory, information theory), and

in the growing synthesising function of philosophy. The historical evolution of the correlation between philosoph ical and specifically scientific knowledge was theoretically in terpreted in different ways. The first stage in the development of cognition was dominated by so-called natural philosophic conceptions of science. The aim of natural philosophy was work out an all-encompassing and complete knowledge which would apparently reveal the absolute essence of things to ma Speculative reasoning was proclaumed as the method of the form of cognition. With regard to the special sciences while seemed to provide only incomplete and relative knowledge, pl losophy was the 'science of sciences', the supreme criterion truth. However, with the progress of knowledge it transpir that philosophy's claims to a mastery of absolute truth were i valid. Natural philosophy began to act as a brake on the dev opment of the special sciences, which caused the emergence positivism in the 1830s

Positivism proclaimed the aum of cognution to be the descrition of what happens and how it happens rather than an inhancing the properties of the properties of the process of the process

ences.

These two sides to the one-sided into

generates into a scholatic theory or an irrationalist detice. Neither can a scential be indifferent to plakes[5]. Furies more, not excry plathosply, an error as a certification of the trially at the reader has learned from the trial in playies at the tunt of the century, caused by the neithplayid were of native perfectionment among were scentists of the time. Leain had perceive that in mind when he write that from antiral scene is on materiation can hadd its own in the strongle against the ordangle of floorgeois ideas and the restoration of the longing world outlook unless at stands on soid phinosphetic groud. In order to hadd his own in this struggle and carry it to a time torous finally, the natural scientist must be a modern materialist, a concious adherent of the materialism represented by Marx, i.e., he must be addicted materialism.

What significance does the philosophy of dislection materialists. What significance does the philosophy as under talsom have for scientific investigation? Philosophy has under connections with the special sciences. First of all, inherical materialism underlies the world outlook of the scientific materialism underlies the world outlook of the scientific materialism to a soft of concrete scientific knowledge and by revealing the conclusion of councrete scientific knowledge and by revealing the continuant knowledge of the world compensates for discrete deep or reality existing in the special sciences in each particular point in time Dialectical and historical materialism patients and positive of the scientific and political direction. Dialectical materialism performs the principles of the decology of the working class, declared by history to engage in a revolutionary transformation of social values desirately for the principles of social equality, pusice, peace and humanists.

# 6. The Methodological Function of Materialist Dialectics

Special mention should be made of the methodological function of dialectical materialism. Methodological problems are diprime importance in scientific research. The method of cognition is, as we know, a sum total of various menas and operations used to achieve an aim set by the researcher, be it the da-

V. I. Lenin, 'On the Significance of Militant Materiahim', Callected Works, Vol 33, Moscow, 1966, p. 233.

covery of a fact, the formulation of a law or the odining problem. Each science has its own methods of reflecting 19: in physics it is the method of spectral analysis, mixtics, mathematical induction, in chemistry, qualitative are in history, the study of sources, in cosmogony, the mel radioactive decay; in metallurgy, the determination of history the inelectromics, integral uncrossfermata etc.

audant alioys; in electronics, integral microschemata etc. Apart from these particular methods used to study real phenomena within the framework of one science, the log general scientific methods used in the cognitive production of the production and the production, etc.), while others are at the theoretical level (formalination, axiomatisation, attacks and the production and deduction, etc.), while others are at the theoretical level (formalination, axiomatisation, attacks and the production of the production, etc.).

The attainment of the objective truth requires the use dialectico-materialian method, which must be applied at it els and stages of the cognitive process and in the study spheres of reality. The method of materialist dialectics universal method of modern science. The methodological tion of dialectical materialism is closely linked with its et as world outlook. The theory and method of Marsist-L philosophy form a single whole. The general laws and c ries of materialst dialectics, logically spressed in the for a philosophical theory, become the methodological princip investigation in the special sciences.

In moulding a scientific world view, materialist dias also become an instrument for statising new know. Only with the method of materialist dialectics can we the problems arising in modern physics How can we, I stance, understand the fusion of space and time into a 'as asserted by the theory of relativity? Is it abourd that diaparticles combine with continuous waves, as quantum m

ics holds? How can we conceive of the transformation of particles of matter into non-material light and of light into sub-stance, as is maintained in quantum electrodynamics? How cas we understand the mutual transformability of fundamental particles of matter as held in the theory of elementary particles. Modern science seeks and finds a method for solving these and other problems in materialist dialectics. The major objective of natural science today is to cognise the all-round, universal regularity of developing nature and to express it in sich concepts which, as Lenin insisted, should be 'flexible, mobile, relative, mutually connected, united in opposites, in order to cubrace the world'.

When scientists consciously use the method of dialectical materialism they promote the development of natural science. Such outstanding scientists as Paul Langevin (France), John Bernal and Cecil Frank Powell (Britain), Shoichi Salat [Janah, V. A. Ambartsumyan, S. I. Vavilov and N. N. Semyanov (ISSP) (USSR) have clearly demonstrated the signal importance of the dialectical materialist method in scientific advances. Jawaharlal Nehru described the paramount importance of Marist philosophy in the understanding of historical events as follows 'A study of Marx and Lenin produced a powerful effect on my mind and helped me to see history and current allain in a new light. The long chain of history and current amount in a new light. The long chain of history and of social development appeared to have some meaning, some sequence, and the future low to the sequence. future lost some of its obscurity."

In what ways does the methodological function of materials dialectics manifest itself? First of all, in interpreting scientific discoveries, elucidating their role in the system of knowledge, explaining their philosophical significance. One example a Lenin's explanation of the essence of discoveries in early 20th century physics not as the disappearance of matter, but as the discovery of new forms of matter in motion. Another example is the way materials. is the way materialist dialectics considers the indeterminal principle in physics not as the negation of all causality, but as the discovery of a new form taken by the objective laws—123.

V. I. Lenin, 'Compectus of Hegel's Book The Science of Logs', Collected Works, Vol. 38, p. 146. Jawaharial Nchru, Discovery of India, p. 29.

tistical regularities—in accordance with the dialectical principle of the unity of necessity and chance, and so on.

Secondly, the methodological function of philosophy is mani-

Secondly, the methodological function of philosophy is manifested in foresating, on the basis of materialism and dulectors, the main trends of scientific cognition It is here that the heuristic character of the dislection-materialus method comes to light. Engels predicted, for example, that the development of demistry would help explain the dialectical transition of non-organic matter into living organisms. Modern science has borne out this prediction. Lexicia ties of the meshautibility of the electron is dear example of scientific predictions with regard to the recovered and the restriction of the scientific prediction with regard.

to the prospects for reservis into nature.

Thirdly, the mischadelical significance of dialectical materialism for the special edicates an opportunity of the selective estation for the special edicates subgranted in the selective estation of the special edicates and produce of the selective estates of the principles. Most numbratic and forward-looking scientific hypothesis can be selected according to the best possible conformity with the principles of material unity of the world, that of the unity of matter and motion, of determinant, etc. serve as grounds for disproving parapsychological hypotheses of the existence of estatementy perceptions and technicals, hypotheses of primordial matter and eston, and the service of the dispectation of the dispectation

the againgt for the methodological regiments of the Market Scheminist philosophy to the special sciences one should at the time time warn against possible mistakes in the precural spile and the method of natervisia utkeries. It must be the second of the spile and the second of the spile and the second of the way man cognises objective reality Close unity and opened attention that the second of the way man cognises objective reality Close unity and opened attention that the second of the second of the way man cognises objective reality Close unity and opened attention that the second of the reality close unity and opened of the second of the way man cognises objective reality Close unity and opened of the relationship between Marsiat-Leninist philosophy and the special sciences of nature and occity.

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# 7. Guide to Action

The methodological function of dialectical materialian is eddent not just with respect to scientific cognition. Philosophy as always been connected with politics, with the struggle of diserand parties. The true purport and mission of Marsiae of the philosophy is to promote a revolutionary transformation of bold, and the building of a new, community, southy. For our munists, Lenin stressed, revolutionary theory is 'primarily and predominantly ... a guide to action'. Communist and workers' parties base their activities on objective social dialectics. In modern conditions this dialectics has become very intricate and contradictory, and can only be scientifically elucidated from the standpoint of dialectical and historical materialism.

The need to use different forms and methods of political struggie in rapidly changing conditions, while constantly keeping the ultimate goal of the working class in mind, requires great flexibility from communist and workers' parties in thought and action. They have to be able to determine the best ways to achieve their goal and to consistently accomplish particular tasks, which gradually, step by step, ensures success in the revolutionary struggle. This can only be achieved using the dialectical method. One should make the point here that the methodological function of cognition and social action is exercised, not by the categories and laws of dialectics taken in and of themselves, but by the requirements on the thinking and acting social subject formulated on their basis.

Of course, Marxist dialectics does not lay down the law with regard to every particular social action, for it by no means claims the role of a universal 'instruction'. Dialectical and historical materialism require 'a concrete analysis of a concrete situation'. They formulate the basic principles of such analysis and consequently of the practical social action of the revolutionary class. These principles can be broken down into three groups: general philosophical, general sociological and sociophilosophical,

All principles of materialist dialectics should be classed as general philosophical regulatives of social action. The most important of these have been mentioned above as requirements of dialectical logic. Success in practical activity is determined by several factors such as: to what extent is the totality of various relations among classes taken into account by the revolutionary forces; whether these relations are considered in their develop-

'V. I. Lenin, 'Letters From Afar', Collected Works, Vol. 23 Moscow, 1964, p. 330.

V. I. Lenin, Kommunimur. Journal of the Communist International for the Countries of South-Eastern F man)', Col

teeted Works, Vol. 31, Moscow, 1974, p. 166

ment; whether their analysis of reality is based on the principle of objectivity; whether the unity and struggle of opposits is identified by them, as are the transition of quantity into quality, negation and recurrency in development, the dialectics of content and form, etc.

This, however, is not enough to lead the political struggle of the working class. General sociological requirements are indispensable here. These are the principles of historical materialism as a general sociological theory of Marxism-Leninism According to this point of view it is necessary to proceed in the practice of revolutionary struggle from the fact that the mode of production of material life conditions the general process of so cial, political and intellectual life"; that the history of all hitherto existing society [except that of the primitive society] is the history of class srtuggles'; that at a certain stage of development the material productive forces of society come into 'conflict with the existing relations of production'; that 'the changes in the economic foundation lead sooner or later to the transformation of the whole immense superstructure'; that it is people themselves who make their history, but on the basis of objective conditions attending the production of material life creating the basis for their entire historical activity, and so on

Socio-philosophical principles are also very important in the practical activity of the progressive forces of society. These methodological odological guidelines of social action are formulated within the philosophy of dialectical materialism, account being taken of the dialectics of social development, Marx, Engels and Leila gave such methodological advice to those intending to bring about revolutionary action: one must know how to take due are count of the objective content of a historical process at a given moment, in definite and concrete conditions; at each partice

Karl Marx, A Contribution to the Critique of Political Economic

<sup>&</sup>lt;sup>2</sup> K. Marx, F. Engels, 'Manifesto of the Communist Party In 1976, and Irederak Exact. Progress Publishers, Moscow, 1977, pp. 20-21. Marx and Frederick Engels, Manifesto of the Communist Party 18: 19:55 n. 482.

Karl Mark, A Contribution to the Critique of Political Economy, V. I. Lenin, 'Under a False Flag', Collected Works, Vol. 21, Mor

ular moment to find the particular link in the chain which you must grasp with all your might in order to hold the whole chain and to prepare firmly for the transition to the next link"; to proceed from the real rather than from the possible; to be able to 'combine opposites'; to act without any vacillation'; to apply particular means 'according to the circumstances of the matter', etc.

Schemlier philosophy is in essence concrete, critical and revolocionary. It is not a dogma but a constantly developing scientic doctine. The use of the dialection-materialist method, it application to a definite historical situation, is therefore a creafive task in the direct sense of this term. Materialist induced is the universal method of modern science and of the social action of progressive forces. This is precisely why at should be applied creatively to specific social phenomena and processes in each particular country. For the general exist only in the particular and as a result of the exustence of the particular. The functioning of general dialectical and sociological laws must therefore be specially brought to light in each particular process and phenomenon, and from this one must draw concrete policilical conclusions and accordingly work out the tactics of social action.

Historical and national conditions have taken different thapse in different countries. At the same time, uniformly and a growing trend towards progressive development are making themselves left in the life of society. Bourgeon scientists long propounds of a theory that the East would develop in a pasticular way, differing from that of the West. This shorty has now been proved untenable. The Eastern countries, including India, China, Japan, and Iran have, on the whole, travelled the same path as the

V. I. Lenin, 'Conspectus of Hegel' Collected Works, Vol. 38, Moscow, 1977 of Lor

<sup>&</sup>lt;sup>3</sup> V. I. Lenin, 'The Immediate Tasks of the Soviet Government', Collected Works, Vol. 27, Moscow, 1965, p. 274.
<sup>3</sup> V. I. Lenin, 'Letter to N. D. Kiknadze', Collected Works, Vol. 35,

Moscow, 1973, pp. 242-44.

V. I. Lenin, The Trade Unions, the
Trotsly's Mustacis, Collected it orks, Vol. 32

35, p. 27.

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of a growing number of socialist-second countries, all the sithat the transition from capitalism to socialize a not a Cooccurrence but a legical, law-governed stage in the progradevelopment of manhand Social and scenting practices in struggle against exploitation and oppressor.

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forces for peace, democracy, national liberation, socialist communism.



countries of the West. They also went through a primitive-communal system which gase rise to a slar-ewoning order. As in the West, slave relations were replaced by the feudal-serf system bast for a much longer time in the countries of the East. Though, during the last century, the feudal-serf order in the East has been increasingly eroded and is being replaced by the capitalst one, the remnants of feudalism are still aving an effect, even today, in many cases. The bustory of the East, like that of the West, has been characterised by class straigle, ever since the classes first emerged. The people of all countries have been struggling against oppression, for freedom and national independence. Thus the laws in operation in Europe are also valid for the countries of the East.

The victory of the Great October Socialist Revolution and of socialism in the USSR, the collapse of the explorer system in secral European and Asian countries and their in the Western Hemisphere, in Guba, as well as the emergence in recent years of a growing number of socialist-oriented countries, all this shows that the transition from capitalism to socialism not a chance that the transition from capitalism to socialism on a chance focurrence but a logical, lawsgoverned stage in the progressive development of mankind. Social and scientific practices todd development of mankind. Social and scientific practices todd development the objective truth of Marsial-Leninit teaching This teaching expresses the interests of the working masses in This teaching expresses the interests of the working masses in struggle against exploration and oppression.

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